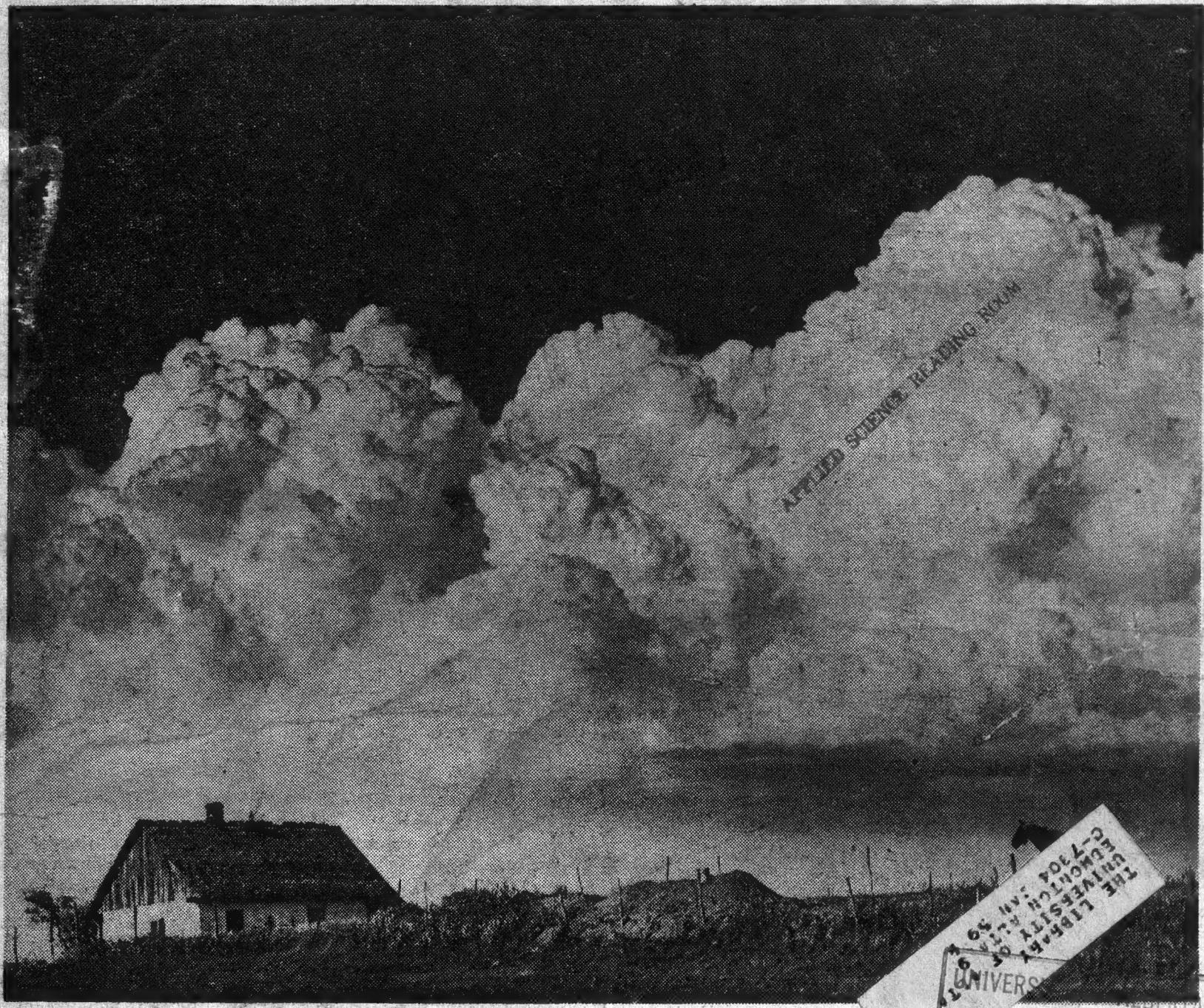


# arm and anch review

VOLUME LIV.  
NUMBER 6

*Appleton*  
CALGARY, ALBERTA  
JUNE, 1958



## Hail Storm Approaching

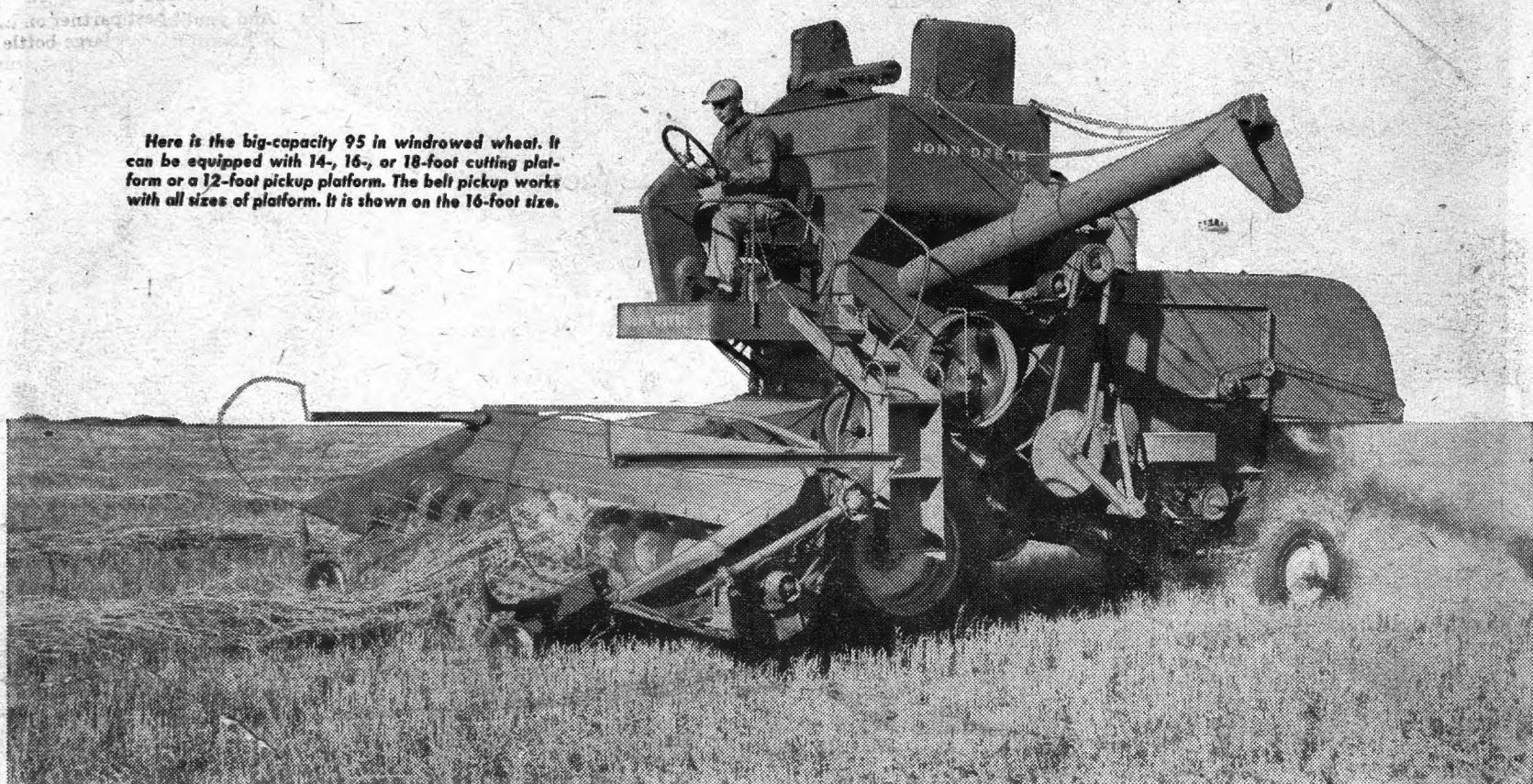
One bad hail storm can completely destroy a farmer's crop. Research is under way on the Prairies to find ways to break up the threat before it strikes. See hail suppression feature inside.

● *Saskatchewan's Pion-Era* ● *The Feeder's Clinic*

● *The Useful Bombus* ● *Life Among The Blackfeet*

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Western Canada's Pioneer Agricultural Magazine

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No wonder so many modern housewives want stainless steel sinks in their kitchens... stainless steel tableware in their dining rooms. Architects have used stainless steel for years to brighten and beautify the interiors of the buildings they design... and now they're using it for the exterior walls of buildings. Food processing industries depend on it to help keep their products pure.

Take the dairy industry, for example. Modern

farms and dairies are now using stainless steel equipment for handling and processing milk. The milk seldom touches anything but stainless steel from milking to bottling time. Even the tanks on the huge trucks that haul milk from the farm to the dairy are made with stainless steel to protect the milk from contamination.

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# Editorials . . .

## *Kiss of death . . .*

**"Will you step into my parlor?"  
said the spider to the fly**

ORGANIZED LABOR took a line from the old nursery rhyme when it invited Canada's farmers to step into its political parlor. There is little doubt that the farmers will give the same answer as the fly.

The invitation was extended at the Canadian Labor Congress Convention in Winnipeg under the shadow of the diesel firemen's strike. Turning on its warmest smile, the CLC proposed that farmers join the labor movement in the new political organization to be reconstructed on the skeleton of the discredited and dismembered CCF.

To start with, the suggestion implies that neither of Canada's two major parties is doing a job for either the farmers or organized labor. Therefore — according to this line of thought — another party must be formed, not alone to serve the Canadian public, but to jump entirely to the tune of the leaders of organized labor (and, of course, the farmers).

The offer has come at an opportune time for any prairie farmers who may have forgotten for a moment that organized labor doesn't change its spots. Only a mounting

public resentment against the unreasonable demands of the C.P.R. firemen was able to prevent the union leaders from forcing the railway (and, therefore, ultimately the farmers) to continue paying out \$11,000,000 a year to unnecessary employees for useless work. The CLC, in publicly supporting the firemen, showed little regard for the plight of the farmers who eventually must pay the bill in increased costs in everything they must ship and buy.

It's obvious that the union organizers would use the farmers for their own purposes. It was only in November of 1956 that R. L. Graham, assistant to Dave Beck, head of the powerful Teamster's Union, stated in the Farm Journal, "Fundamentally, I don't think we want farmers as union members . . . Let's be frank; if the teamsters and farmers get together it will be purely for political purposes." These are the words of a top union official.

It is obvious then that the objective of the leaders of organized labor is to use farmers to their own ends, and to accept their blandishments and kind offers of co-operation might be the kiss of death.

ing assets and that, by the end of the century, much of these reserves will have been consumed." The implication from this statement is that the West may not be holding this trump card forever, and it must play the card well if it is ever to lessen its dependence on the East and the U.S. and round out the prairie economy on a sound basis. A thriving broad industry at home will cut freight rates, and increase population, either of which will benefit the farmer.

Mr. Donald pointed out that "the greater the extent to which primary production can be up-graded before export, the greater the return to the economy."

"To compete in the larger Eastern market or in export, Alberta production must, therefore, have the advantage of lower raw material costs and certainly must not have higher taxes. This is well exemplified in the industries using large quantities of natural gas such as the large chemical industries. The Western market is not sufficiently large to support them, and unless the major part of their production can be sold elsewhere, they are not economically justifiable. This means essentially that manufacturing costs must be sufficiently low to absorb the freight to market and to meet competition from other sources of supply. If the price of Alberta natural gas is as cheap south of the border as in Alberta, there is no incentive to build a plant in Alberta to supply the United States market." This, of course, applies equally to Saskatchewan and Manitoba.

The results of the economic survey led Mr. Donald to one significant conclusion:

"We believe a policy should be developed whereby industry will be encouraged to use these resources in Alberta rather than export them."

These thoughts certainly lend support to the feeling of so very many people in the West that we might be selling ourselves short if we don't play our trump carefully. Unqualified gas export might make a few millionaires in New York or Toronto, but it could keep the prairie farmer behind the economic eight ball. Our resources must be of the greatest possible value to Canada in general and the West in particular.

Great things could be in store for the western prairies . . . maybe.

## *Why tourists?*

MONEY problems are like the tooth-ache. When you have one it overrides all else.

This might be the reason why many farmers facing their own financial difficulties still look with a jaundiced eye on the costly encouragement being given to the country's tourist industry.

Naturally those directly involved in the tourist trade stand to make their tidy profit or they wouldn't be in the business, but it can also be a blessing in disguise for the farmer.

W. Gordon Wood, President of the Canadian Tourist Association, made this point recently. He said that about 7,500,000 Americans came by car into Canada last year, to stay for more than two days. If each had been encouraged to remain for just another fifteen minutes to buy a fried egg sandwich, they would have consumed an extra 625,000 dozen eggs, 750,000 loaves of bread and 120,000 pounds of butter.

From the point of view of the farmer this could become pretty big business. Farmers are not generally directly concerned with the tourists themselves, but their moral support for the tourist industry and its development would not be at all misplaced. A tourist is an unusual animal, with a hearty appetite for food and goods, who buys almost anything and competes with the farmer for almost nothing.

## *Delegated authority*

THERE are few things more satisfying to editors than to see their comments on paper verified in fact.

Not so long ago we drew comment from our readers with an editorial under the heading of "Pigs and Planners", which described the plight of an Ohio farmer who became the victim of the Ohio Turnpike Commission when "like a bolt from the blue, and with almost complete disregard for McKarns' basic rights, a super highway was laid across the very centre of his land."

We added further that it is difficult and expensive to defend one's freedom and property against the growing authority of civil servants in office, and that this was just another case of victory for the bureaucracy

## *Financial box score*

This spring, for a pound of northern pike fillets :—

Prairie consumers paid up to 65c.

The fishermen received about 3c.

over the individual. We further warned that unless we remained alert, it could easily happen here.

As it turns out, it has happened here.

Alberta farmers near the town of Innisfail awoke to find heavy road-building equipment slashing across their land. True, the highways department had the authority to build the highway, and the farmers were not entirely unaware that it would be following the route taken. Yet, although the Minister of Highways had issued instructions that the farmers were to be treated individually and with respect, his instructions were not carried out. In several cases, not the slightest heed was paid to the reasonable and normal procedure of negotiation with the land-owner for a proper assessment and compensation. Nor, in many cases was the farmer's recommendations for proper fencing and underpass facilities even discussed.

After a few days of newspaper war the difficulty settled down to a tempest in a teapot. The farmers in this case were alert to their rights and banded together to demand them. Being reasonable people, they knew full well that they could not stop construction of the highway, but their protest did a public service for the rest of us in drawing attention to the manner in which the right-of-way negotiations were conducted.

Noteworthy above all else is the simple fact that the people's elected representative — the Provincial Minister of Highways — moved with tact and dispatch to protect the rights of the farmers and remedy the errors of the non-elected civil servants who bullied their way forward in their bureaucratic way.

The lesson we may well draw is the one we drew before. The public must be increasingly alert to the abuse of power by the non-elected government officials who every day gain more and more duties and authority with the snowballing growth of big government.

Our real freedom and protection remains — as ever — in the hands of the elected representatives.

## Bargain hunters

**Y**OU can have too much of a good thing. We are thinking particularly of the lady who bought four frying pans because they were such a bargain and she felt that she was somehow making money. But having three extra frying pans around the house is like having three extra heads.

With the same twisted logic, the bureaucrats of the U.S. farm administration, who are largely responsible for their surplus muddle, claim that they have really brought home a bargain. They have announced proudly that U.S. government policy of paying farmers for not growing crops has saved the taxpayers hundreds of millions of dollars.

The Wall Street Journal points out that Uncle Sam paid farmers a total of \$614,000,000 this year to put 21,300,000 acres of land to idleness. As everybody knows in any government fixed-price support program, the more of any commodity there is, the more the government has to pay to support the price. Therefore, every time a farmer doesn't grow a bushel of wheat the nation saves money. Or, to put it another way, the

less we produce, the more prosperous we are."

The total value of crops not produced in the U.S. last year was \$1,000,000,000. The cost of not producing this liability was \$614,000,000. The difference between the two figures is \$386,000,000. "There you have it," say the planners, "386-million profit." Of course, as the Journal says, if the public hadn't bought the monstrous program of fixed subsidies to begin with, it wouldn't be out \$614,000,000 either.

We seem to recall that the wife with the three extra frying pans had her expense account cut off and was banished to the kitchen.

The same solution might work with the government planners; tighten their purse strings and tell them to stop meddling in things beyond their depth.

## Farm labor pools

**A** WELL-KNOWN farm reporter laments that seldom, if ever, is a voice raised in defence of the little farm and the little farmer

We'll disregard the obvious fact that he hasn't been reading this publication recently, to join him in some further opinions. He states that if the small farm disappears from our society there will be a loss which cannot be replaced by any other type of livelihood, yet the high cost of labor and machinery is squeezing the small farmer out.

He suggests that a partial solution might be the establishment by some enterprising individual of a business which specialized in a big way in hiring out all manner of farm equipment. This could be extended to include labor. Inasmuch as labor is one of the most prohibitive features of farming today.

In case anyone is interested in developing this idea further, it might be well to study a system for hiring temporary or emergency labor which has already been established in Britain, a country that by our standards is entirely a land of small farms with the problems of small farms. In the last couple of years firms for available farm workers have become an accepted part of the British agricultural scene.

One of these organizations calls itself the Farmers' Emergency Service, and offers 24-hour service every day of the year from its headquarters in Egham, Surrey. It has a permanent staff of 40 to 50 in winter and from 60 to 70 in summer, working in all parts of England and Wales as temporary hired help. Most of the staff — both men and women — have agricultural diplomas from full-time agricultural institutes.

These workers receive the national minimum wages for farm workers, free board and lodging "of good standard" as well as travelling expenses. They work a seven-day week with the extra seventh day tacked onto their annual holidays, and between assignments are paid their regular wage by the organization.

Most of the relief services specialize in providing temporary herdsmen — chiefly for milking — but one at least offers the services of temporary managers, bailiffs, foremen, pigmen and tractor drivers.

## Little Hitlers

**T**HEN there's the man who liked to be beaten on the head with a hammer because it's so nice when one stops.

Most people are not of the same mind on the matter and find no ultimate satisfaction at all from being constantly beaten over the head by the demands of organized labor. The diesel firemen's dispute — and no pun intended — brought it to a head. The Canadian public has had just about enough of irresponsible labor leaders growing into little Hitlers by throwing around the weight of their captive members.

The outcome of the strike — if nothing else — completely vindicates the stand of the C.P.R. that firemen just aren't needed on freight and yard diesels. The recommendations of the Kellock Royal Commission are being instituted all along the line.

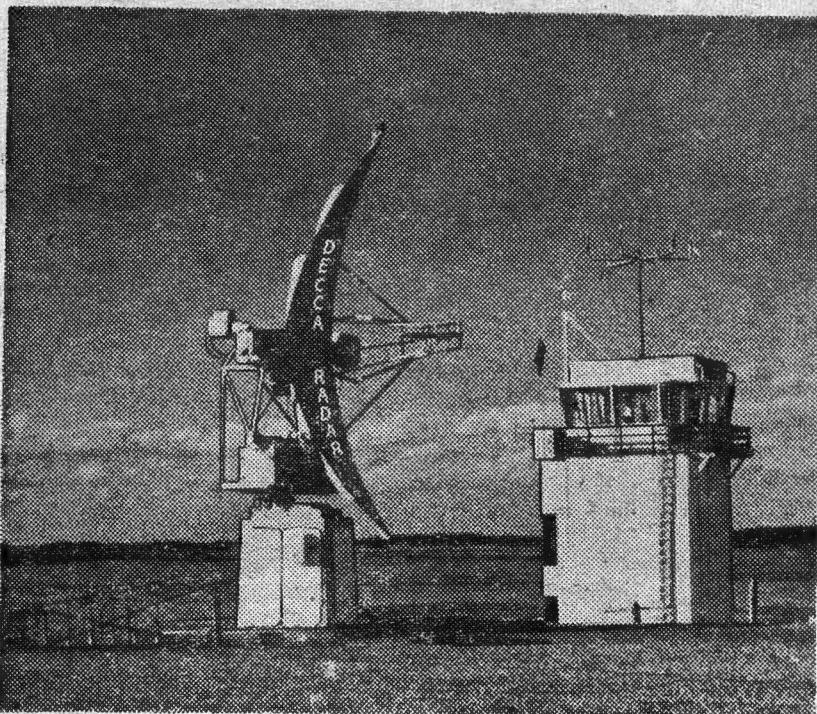
Normally, no reasonable union official would have tried to build a case on such a shaky foundation as the firemen's issue. Never has a company been so generous in its proposals to protect members of a craft affected by technological advances as was the C.P.R. Then one might reasonably ask: "Who hoped to gain by the strike?" Not the C.P.R. which already has its share of business headaches; not the general public which would be affected in a multitude of ways by a strike; certainly not the farmers, who saw a threat to their grain shipments in a period of top grain movement and who would ultimately pay the bill should the union's expensive and impractical demands be met.

The people who hoped to gain were the leaders of the firemen's union who saw their membership, and therefore their power, being whittled down. With fewer firemen to represent, a few ambitious union officials — climbing up by other people's bootstraps — would have to go to work. U.S. labor organizers supported the Canadian labor leaders because the same issue is being debated across the line. We have not heard the last of the argument. This is the selfish reason for which a handful of men were willing to tie up the nation's economy.

The rank and file of labor were not behind the irresponsible demands of the union once the chips were down. Torn by loyalty to their organization and badgered by threats from the more radical element in their unions, other railwaymen were forced to make their choice. Some of the top echelon thugs and grafters that have been leading their paying members around by the nose have been weeded out, but there are other undesirable elements in unionism.

Unless the rank and file take over and run their Canadian organizations in a responsible way instead of being led down the garden path by ambitious power-seekers, public patience is bound to end and labor will lose many of its hard-earned privileges.

But for the time being, Western Farmers and the public at large can sit back with satisfaction in the knowledge that the irresponsible demands of a few union organizers have been dropped in the wastebasket where they belong.



The type of radar equipment being used to trace developing hail storms.

## Hail suppression progress

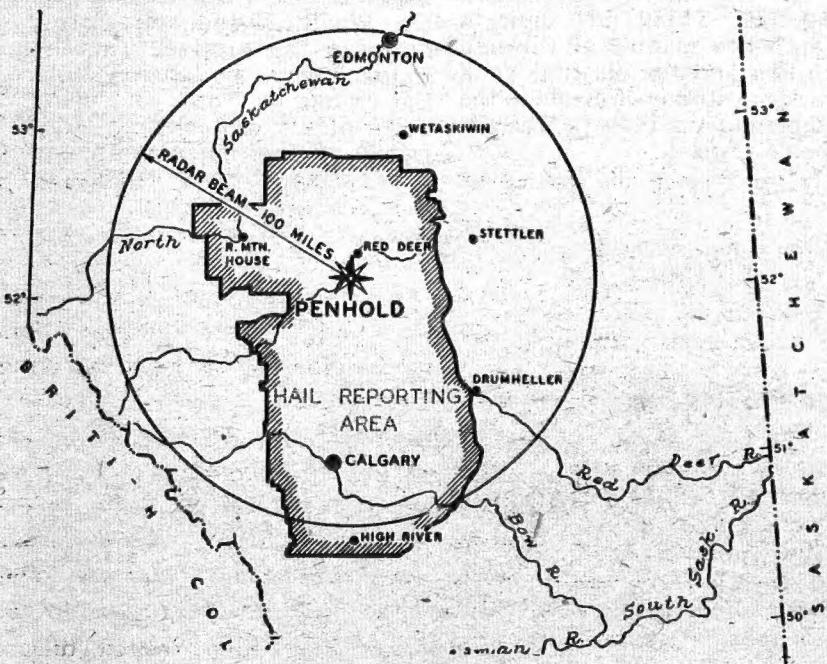
IN 1946 a man named Schaefer made his first dry ice run over a cloud and effectively induced precipitation.

Later, a scientist, Vonnegut found that silver iodide functioned as freezing nuclei and acted at a temperature of about 25° F. Natural agents seldom cause ice to form above 10 degrees F. These experiments were made for the purpose of artificially inducing rainfall. However, the speculation and study of the complex precipitation process led to a belief, by some, that a situation might be provided which would prevent the formation of large hailstones, and the fre-

quency with which hailstones occur in certain areas. Nowhere were these experiments followed with more interest than by the consistently hail-ed-out areas of Alberta and Saskatchewan, and by meteorologists and scientists of the western provinces.

Small wonder, since Alberta has an average hail loss of about \$20 million, and Saskatchewan about \$30 million. Farmers in the areas most often hit, were naturally desperate for any promising measure of hail suppression and anxious to try experiments.

(Continued on page 12)



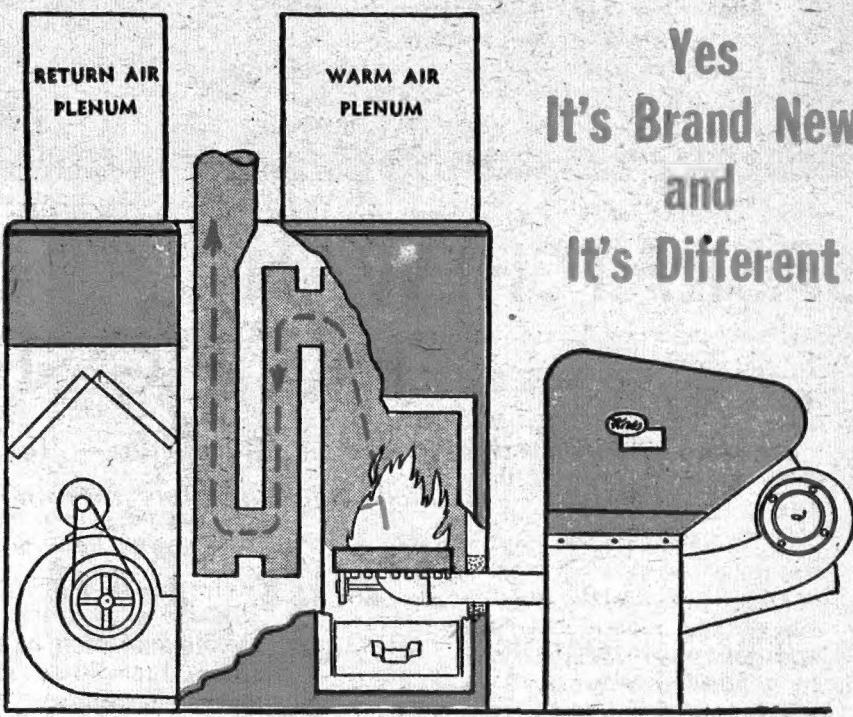
Research Council Map.  
This map shows the area on the prairies that was selected for the hail studies. Farmers within the shaded border report hail occurrence and damage. The circle indicates the range of radar which includes the district to the south where the commercial hail suppression is in operation as well as the northern area where no chemical experiments are being carried out.

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## SASKATCHEWAN . . . HAS BIG SHOW TOO

*Alberta has its World Famed Stampede — Manitoba its Trapper Festival — in Saskatchewan they have a show called*

### *Pion-Era*

By GEORGE SHEPHERD  
(Museum Curator)

HAVE you ever wished you possessed a magic key with which you could turn back the clock of time to the day of the homesteader with his sod shack and his oxen. Have you ever wondered what it was like living in pioneer times — to see threshing done with the flail or by horse power, to see bread baked in outdoor clay ovens, to gaze open-mouthed as a 1905 single cylinder Cadillac goes whizzing by, all-out at twelve miles an hour?

You can revel in such experiences by attending Pion-Era at

the Western Development Museum at Saskatoon, June 30 to July 5th inclusive. Machinery such as ancient farm tractors, road machinery, farm equipment, old-time autos (and even such simple little things as the homesteader's bible of 1903) will all be on display and, what is more, in actual operation. A whole airplane hangar of relics of the pioneer days will be moved out to delight the old-timers and young-timers who drive hundreds of miles to see these fascinating scenes of yesteryear.

The Western Development Museums at North Battleford, Yorkton and Saskatoon are the

brain child of Mr. J. L. Phelps. The Museums are open all summer long, but it is at the Saskatoon Pion-Era that people and exhibits really come to life and present Prairie Pioneers in action.

An average day at Pion-Era starts about 6 a.m. when the engineers and volunteer helpers start flocking into the cook cars for an old-time threshermen's breakfast. Things are done in an authentic manner all through Pion-Era and the old-time cook cars serve dozens of meals to the members of the Pioneer Threshermen's Club.

By ten o'clock the belting-up

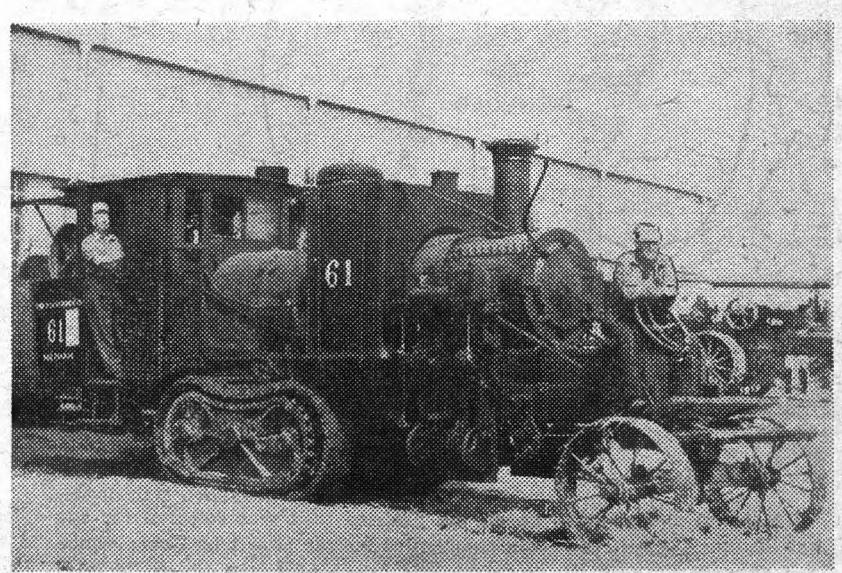
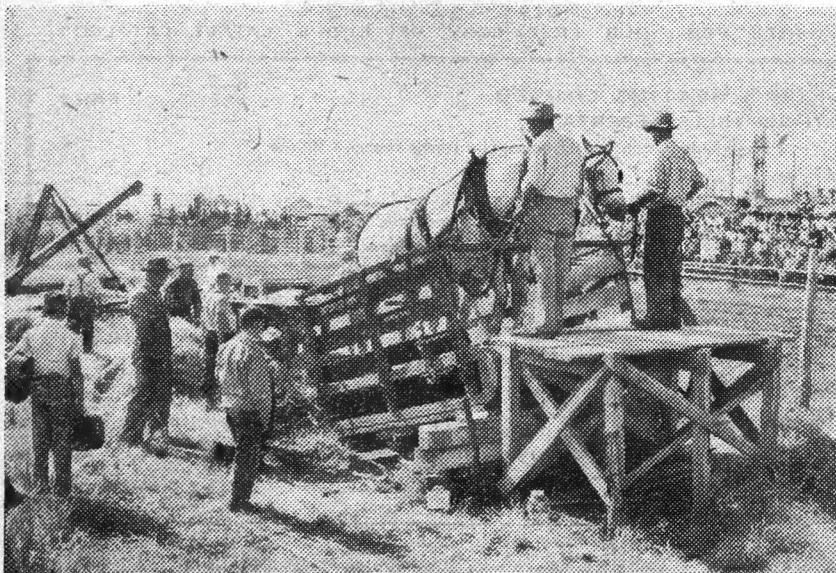
contests are underway and engines are testing out the Baker Fan and the Prony Brake. A spectacular feature of the morning events is putting a fifty-year-old Case steamer up the incline and balancing a twenty-ton steamer on the teeter-totter.

At 1:30 each day the show really gets rolling. At that time some prominent person declares the show officially open. Immediately following there is the daily parade past the grandstand of everything on the grounds that can turn a wheel or shake a hoof.

This parade takes about 45 minutes, and outsiders have declared it unequalled anywhere on the North American continent. The steam engine men aim to steal the show as they come by sounding off on their whistles and blowing out black smoke and white steam. There are around 25 steamers in the parade, and at least one of them dates back to the day when Calgary was a N.W.M.P. police stockade and was known as Fort Brisbois.

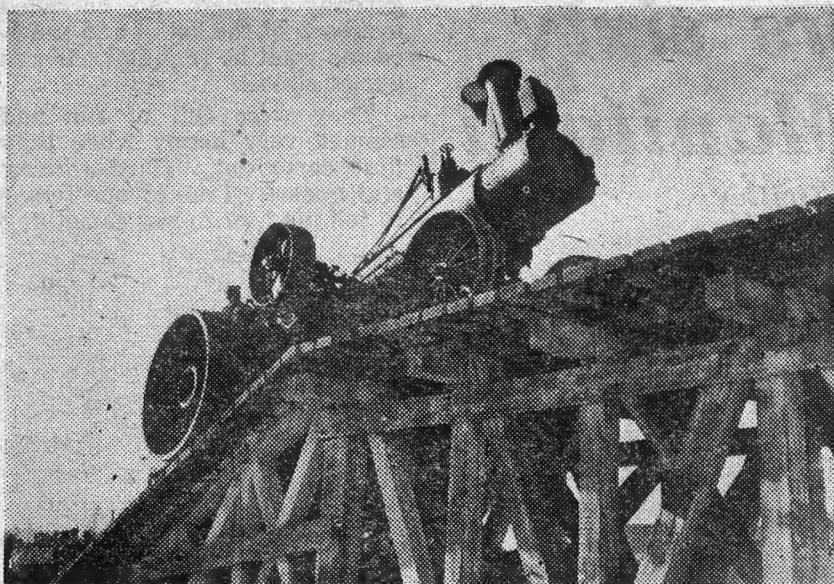
Perhaps the gas tractors in the parade are more unusual. As these odd-looking machines of the past come roaring by one sees before him the evolution of the internal combustion tractor. As they rumble along one realizes how the manufacturers were all working in different ways with engines driven by one, two, three or four wheels with the engines being powered by the same variation in the number of cylinders. While the gas engine part of the parade is out of this world, the antique autos run them a close second; the pioneer cars of fifty years ago exciting everyone's fancy.

For the horse lover there are up to one hundred and fifty head of horses, mules, and oxen in the parade. These are hitched to every kind of rig one could imagine. There is the historic Dr. W. R. Motherwell surrey, there is the original Timothy Eaton buggy, the "Surrey With the Fringe on Top", and many other dainty and elegant equipages of the horse-and-buggy days. Oxen will be hitched to



Early power was not always supplied by the heavy steam tractor: In this case it was supplied by a team of horses walking on an endless treadmill, going nowhere.

In full use during the Pion-Era celebrations, the museum log hauler or Centipede could haul over thirty of the big logging sleighs containing a train-load of lumber.



Riding this 50-year-old Case steamer up the ramp was like riding a bronc — the engine had no brakes and the driver had to know when to get off.

Red River Carts, covered-wagons, and later, to plows and other machinery.

Right after the parade there is the threshing demonstration beginning with the flail and finishing with the straw-burning North West. The plowing demonstration starts with a yoke of oxen on a walking plow and finishes with the 32-h.p. Reeves pulling 14 bottoms.

A partial list of the other activities would include the log-sawing, the kiddies' train ride, the model engine displays, the firing of the old muzzle loaders, Indians making pemmican, the dog wheel, the women's pageants, and the baking and serving of bread hot out of the clay ovens. Pion-Era has well been described as "A World's Fair in Itself".

To assist in operating all the various activities requires a personnel of over three hundred volunteer workers, and an advisory committee has been set up consisting of people from all over the province and from all walks of life. The managing director is "Joe" Phelps; the chairman, Prof. Oliver Symes, of the Agricultural Engineering Department of the University,

and the secretary (Mrs.) Bernice Norman. The Pion-Era committee decided to make a special feature this year of railroad grading just as it was done fifty years ago by horses and mule power.

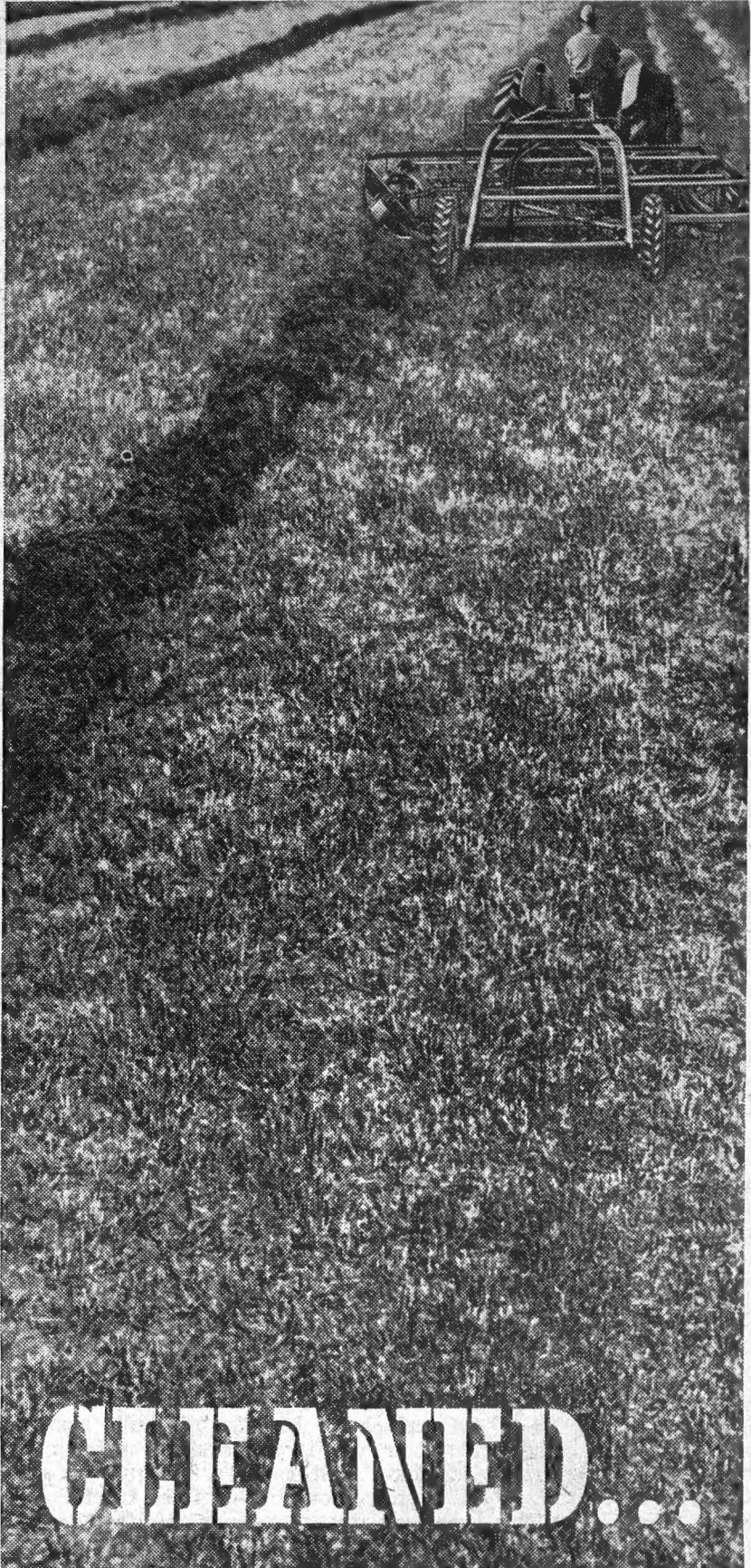
To achieve this end a Stroud elevating grader has been reconditioned with its complement of dump wagons and a railroad grade will be built right on the Museum property. There will be wheel-scrapers, fresnoes, slips, and a horse-operated bull-dozer. Other pioneer road machinery will round out the picture. This project alone will be worth coming many miles to see.

In order to not conflict with the Calgary Stampede the date of Pion-Era has been set for the first week in July — June 30 to July 5th inclusive. This is a down-to-earth grass roots show with no Hollywood make believe, and you don't have to be a long-hair in order to appreciate it. Put the whole family in jeans and get to Saskatoon for a show "you-all" will talk about for the rest of the year.

The place is the Museum at Saskatoon, Saskatchewan. Try and be there! It will be an experience you will never forget.

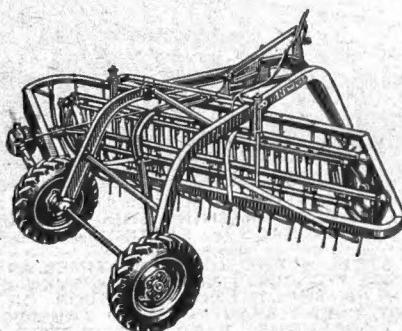


Women were pioneers, too. In re-living the early days by cooking with this clay oven, 42 sacks of flour were used in baking bread for visitors last year.



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IT is 60 years this summer since 1,500 Doukhobors from the bleak land of Siberia trekked the 30 miles from the end of the steel and rested their weary limbs at "Tent Town". It gave colour to the pioneer settlement. The men, with their lemonade pants, too short by a foot and their black coats, too long by another foot, topped off by a pork-pie hat, was a cause for quiet laughter. The women, dressed in voluminous bright coloured skirts, were about as wide as long.

The chuckles were not all on one side. When the men from old Ontario and western Europe dressed up for Sunday in their Christie stiffs and exposed their heavy watch

# Doukhobors sixty years in Manitoba

By F. A. Twilley

chains and peered over their paper collars, while the women filled their bishop and leg-o-mutton sleeves it was about fifty-fifty. Less than that I think for the babouska of the Russian ladies was a mile ahead of the fruit baskets and hens-nests that our women balanced precariously on their heads.

Not a word of English could these Doukhobors speak and



In my youth the Doukhobors used to come into town en masse to shop. When something caught their fancy they would sometimes empty the shelves of the item.

what a time they had for a while trying to make themselves understood. Jack McKay, whose father had the first store in "Tent Town", tells of one fellow wanting some eggs. Not making himself understood, he finally put his hat down and sat on it.

In between my homestead duties, I found work in a store and it was always exciting when the Douks came into town to shop. This, of course, was after they had reached the land allotted to them. They were located forty miles from Swan River, and they built themselves stabling and huts near the town so as to have accommodation when coming to shop. There would generally be about 25 or 30 of them doing the shopping.

Everything was new to them or at least some things were, and when one of them espied something on the shelf that seemed to have great possibilities in the way of cooking, he bought one and so did everyone else. They walked up Main Street swinging them by the handle. They were those intimate articles that we generally find under the bed.

After a while they acquired a smattering of English and we in turn picked up a little of their lingo. One day I was puzzled when a fellow wanted fifteen yards of something blue. I learned that much but could not

get any further. So, he called over one of the ladies and showed me what he required. It was garter elastic.

They were full of fun and seemed very happy when they first came out. Hard-working and honest. I asked one fellow to tell me how to say something

more to customers than just "good morning", something in the way of a friendly greeting. He told me. It did not seem to have the desired effect. The reason I learned later. He had taught me to say, "Hello monkeyface".

We are hearing these days of many of them wishing to return to Russia. It will not be returning as those that came here sixty years ago will be few and far between and any that are left will not wish to leave here. It will be mostly Canadian-born descendants who know nothing of Russia or of conditions there. Called the "Sons of Freedom" they are a minority group and may find that there will be little freedom of religion for them, religion of any kind not being a strong point over in Russia just now.

As Swan River Valley is celebrating its diamond jubilee this summer, how nice it would be if some of these Doukhobors that came here in 1898 could come again for a visit. After all, it was not us that caused them to leave here. It was the then Saskatchewan government, who in 1907 insisted on their performing homestead duties.

Here is a fine point. If some of them go back to Russia and do not like it there, has British Columbia seen the last of them? Having been born in Canada can they be refused re-admittance?



"Social Option." The costumes of the early Doukhobors were sometimes a cause for entertainment, but the chuckles were not all on one side. The other women in hats like hen's nests and fruit baskets were just as funny to the Douks.

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## Fighting Erosion With Grassed Down Water-ways



Farm and Ranch Review photo.

**TROUBLE ON ITS WAY . . .** This farmer has left a cultivated valley between two fields and given an open invitation to serious erosion. A grassed-down waterway down the centre of the valley would have removed the danger of gully-formation.

**A SMALL** Western Canada girl is said to have answered an exam question asking what the four seasons are as: Early winter, winter, late winter, and summer.

**SOME** people's idea of a free country is where the government picks up the check.

**A CHE** before you pay. 50 Vancouver, B.C., dentists are instituting a Drill & Pull Now — Pay Later dental deal. You get all your dental suffering done at one time, and then grit your teeth for the months ahead when you make those easy monthly payments through the Finance Company.

**PERHAPS** all a lot of modern children need to snap them out of their boredom is a new switch.

**EITHER** there are still many illiterate people, or many of them need to see their local optometrist. The U.S. Postal Department had to change the lettering on refuse boxes around the post offices from LITTER to TRASH, because some were gathering as many letters as the regular LETTER box.

**A ND** on the matter of spelling: every large dry cleaner or laundry in Calgary with a night chute spells it NIGHT SHUTE — is this a trade trick, or just local lack of culture?

**WHAT** most employers would like to see the five-day week turn into is forty hours work.

**WOMAN'S** place is in the home, but not in the House. That is the opinion of Britain's noble Lords any-



Farm and Ranch Review photo.

**TROUBLE HAS ARRIVED . . .** The same field after the first average rainfall. Valuable top-soil has washed down the hills and swept down the valley in the bed of a rapidly-forming gully. A grassed-down waterway would not only halt any gully-formation, but it would also hold the water and provide a lush growth of hay.

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"Well, thank goodness they're giving up on this bill — it's their final notice."

**by Ivan Helmer**

**way. In speaking on a bill, to create lady members, considerable indignation was expressed by the boys in the House of Lords. All brave men, too, because the words quoted here are from the mouths of married peers: "An unmitigated disaster," one said. "We like and admire women," said another, "sometimes we even grow fond of them, but we do not want them in this place!" And who would want to face his wife after saying: "Women are organizing, pushful and highly distasteful in politics." Or, "Surely silly female whatnots with heaven knows what qualifications are not to be put among us. The government certainly has bigger problems than confronting us with this ridiculous bill!" Somehow we have the feeling that much, much more will be heard, day and night, through the halls and, in the boudoirs, of many an ancient castle on the matter.**

**I**T'S not the down payment that hurts — it's the keep-up.

**WE** will soon be able to go into a drug store and say: "Gimme a small tube of Rye, or Scotch or Gin," or to pick up a dozen tubes of beer. The Japanese are dehydrating the stuff and putting it into toothpaste tubes. Just squeeze a little out, add water, stir and, "Here's mud in your eye!" Just so the public doesn't clean its teeth with Brandy, tooth-paste is going to be put up only in aerosol cans.

**THOUSANDS** of husbands today are worried about their wives working — worried that they might quit.

(Vancouver Province)

**NORTH** American children are growing taller and heavier than children elsewhere. But if we are going to take an intelligent interest in the physical well-being of our children we will ask ourselves if they are fit or fat. Are they strong as well as big? Or are they like hothouse plants — long on pulp, but short on fibre?

There has been no appraisal on the point in B.C., but a physical survey of 300 children in a suburb of Toronto (and surveys elsewhere) suggests that the present generation of TV watchers are a pretty blubbery lot.

**MANY** a girl who marries against all advice later wishes she had just stayed home and listened to her ignorant parents.

**T**HE U.S. Treasury will be "singing the blues", while Mrs. Presley's boy, Elvis, does his stretch in the army. Last year the twitchee made around one million dollars. The income tax on this figures out at about \$884,000.00. Two years of that, together with what it costs to make and keep a soldier, brings the price of one G.I. pretty high.

**A ND** now we have the mother of a budding young scientist who says she didn't raise her boy to hang around old planets.

**A** N old Japanese newspaper recently unearthed, and more than 80 years old, carried the following eulogy on the properties of coffee:

"Coffee is a medical drink and when one drinks it, the heat in the stomach increases, thereby ejecting poisonous elements. It is good for tuberculous, cataracts and other eye diseases, rheumatism, beriberi and toothache. In fact, coffee will heal 10,000 illnesses. It must not, however, be drunk when it is raining heavily, or in time of thunder and lightning."

Nor in too great quantities before seeking repose.

**I**T takes two to make a bargain — a woman and an advertisement.

**P**ROOF that they aren't building things like they used to, especially houses, comes from France. A man of Saumur had a bit of a tiff with his wife, stomped out and banged the door so hard that the house fell down. The gent had to relent, and run for the firemen who rescued his wife from the debris.

**H**ERE is an item that will probably prove to our young why Africa is considered somewhat backward: A former British educationist who worked Africa said in a talk: "African children are bright and intelligent and keen on gaining an education. I remember during a rather dull arith-

metic lesson in a little school seeing two longing faces peeping in the window. Two children who had been sent out to fish for food had sneaked up to the school hoping they could get in and do their arithmetic instead." Doesn't that "send you"?

**I**T begins to look as if neither sex amounts to much — men prefer women, and women prefer men.

**C**HEERING news comes from Sherbrooke, England, where long ago Robin Hood gambled in the suburbs: A British scientist there has been awarded a gold medal for bringing time-keeping to what is considered a fine pitch of accuracy: a variation in 300 years of one second.

**A** ND in Newcastle-on-the-Tyne, 33 scrub women went on strike at the post office buildings for larger and softer kneeling pads, rubber aprons and rubber gloves. They said they were tired of "soft soap" and wanted action.

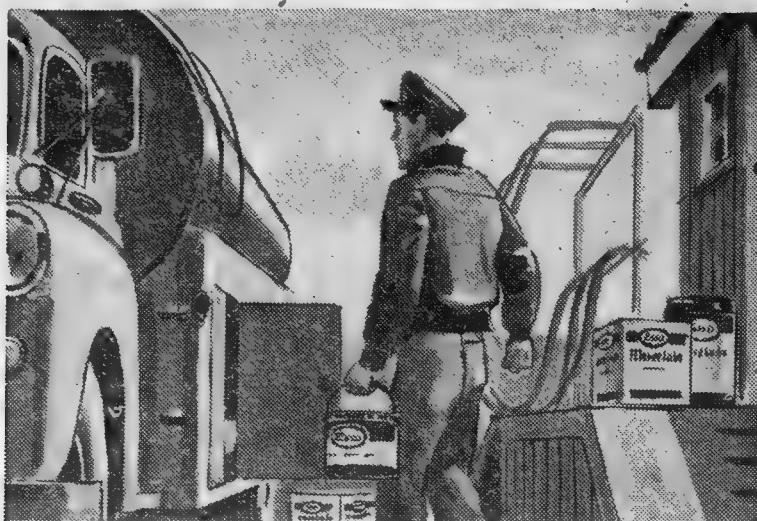
**T**HE modern child asks for no quarter — nothing less than a buck.

**P**EOPLE who feel that systematic systems can be carried too far will get moral support from a report about a Chicago engineer. The man kept a card file system in his large apartment listing all his possessions there, where there were, their worth, and so on. One evening he arrived home to find that burglars had systematically rid his place of everything of value, using his file system in expediting their work.

**W**ELL, as the Chinese sages say, a man who loses head on the highway may find it under tombstone.

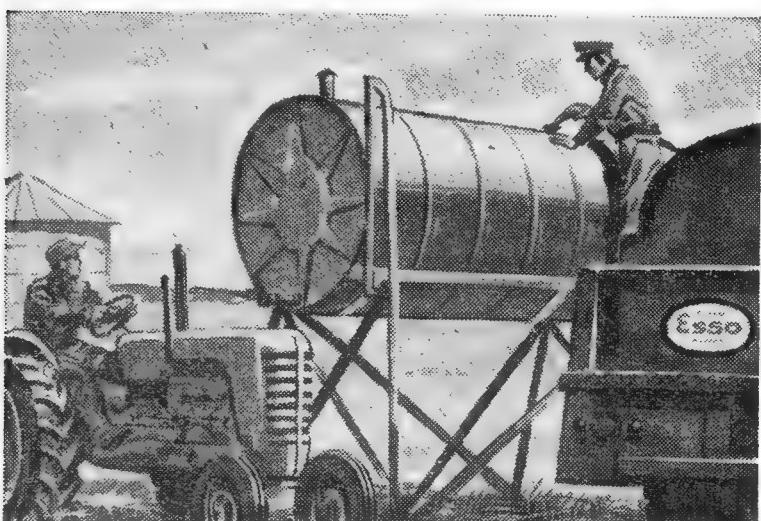


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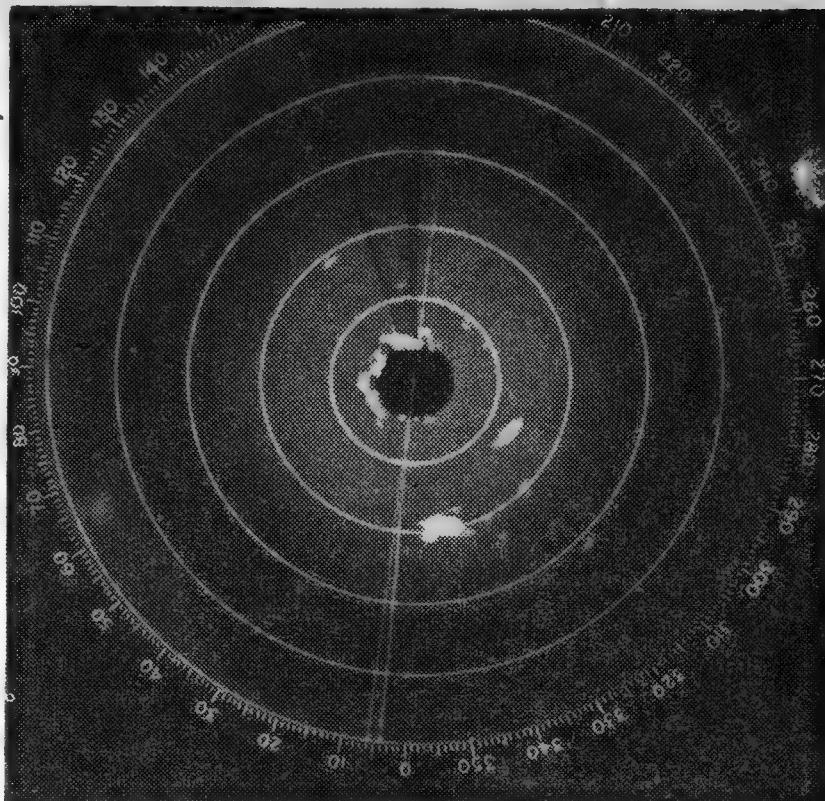
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(Continued from page 11)



Research Council Photo

Photographs of radar screens give a permanent record of the storms being traced. Contrary to common belief, a storm such as the one indicated by the white blob on the lower part of the screen do not necessarily move into the screen from the side. The storm may just suddenly appear at one spot.

In 1955, a group of farmers in the Didsbury area had banded together. Having raised \$23,000.00 through private contribution they, in co-operation with a commercial company, The Water Resources Development Corp., instituted a series of tests in 1956.

In the meantime the meteorological office of the Department of Transport, and the Research Council of Alberta, also keenly interested in the matter were laying out a plan for further research in the formation of clouds and storm and hail development.

The decision of the Didsbury group to go ahead with their plans caused some hasty reorganization of the government departments research programs.

Originally it had been planned to secure information by card questionnaires sent to farmers in the Lacombe-Ponoka area. The card program had to be greatly expanded to co-operate with municipalities taking part in the commercial project. All pertinent information about hailstorms was sought by the cards, and from the press, radio and television.

Some work was done last year on time lapse photography in an effort to follow the formation and performance of typical hail-producing cloud systems.

The National Research Council and the Stormy Weather Group of McGill University have now been added to the agencies already mentioned. The former is supplying a weather radar and is providing a technician for the supervision and operation of this phase of the study. With the co-operation of the R.C.A.F. at Penhold, the radar is being installed on the airforce facilities

there. This is considered an ideal location as the radar has an effective range of up to a 150 miles. Thus observers will be able to scan the scene to the south where the commercial project will be in operation, as well as the northern area where no chemical experiments are being carried out.

The area under observation by radar will cover some 30,000 square miles of which about 14,000 square miles are in an area usually subjected to severe hail storms. Within this latter area is the commercial hail-suppression set-up with its ring of generators for handling silver iodide.

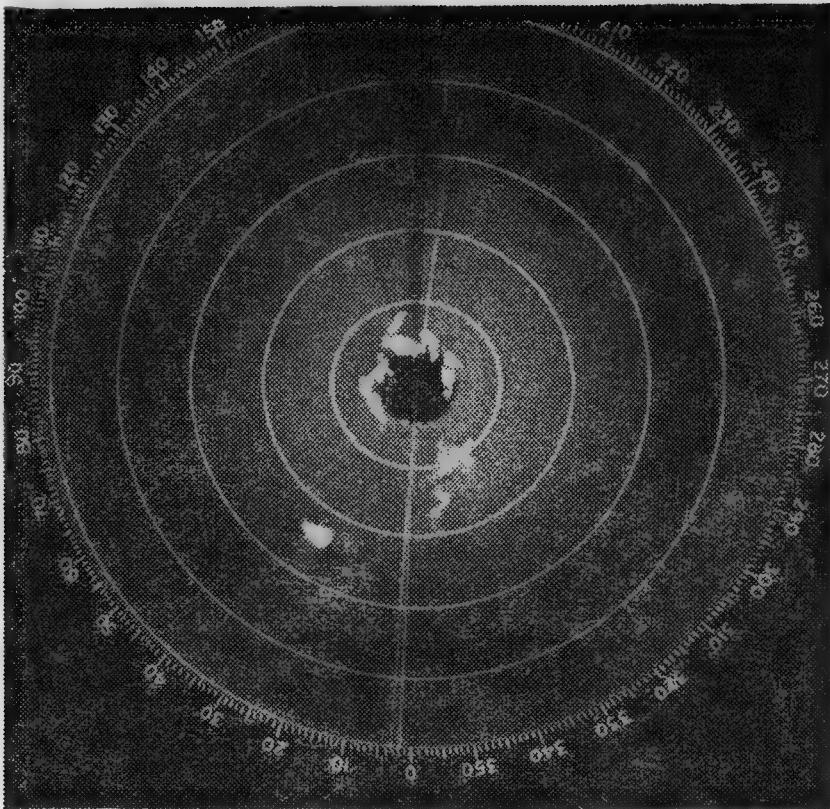
The Stormy Weather Group will handle the basic research on the data received from the cards and other sources.

It is believed, that with the agencies and equipment at work, 1958 will provide a valuable picture of the initiation and development of hail in an area with a very high incidence of hail storms.

According to N. H. Grace, Director of the Research Council of Alberta, writing in the Nov.-Dec. issue of the Agricultural Institute Review, the public should clearly understand that the major objective of the cooperative investigation in Alberta in its second year of operation is the study of basic cloud physics as they pertain to hail. This, he says, is the main purpose of research study.

Mr. Grace lists some of the difficulties involved in such an investigation as follows:

"Very considerable difficulties are involved in the matter of evaluation of suppressions of the type at present under way. There are different types of



Research Council Photo  
Taken a few minutes after the photograph on the left, this indicates how the storm has moved across the radar screen from right to left and become much smaller. Meantime, another storm appears to be building up in its wake.

cloud systems; fast-moving fronts, etc., and it is almost certain that some situations will be more amendable to treatment than others. Science is not too clear yet on the behavior of silver iodide in super-cooled clouds. There is also the question of photo-inactivity of silver iodide vapor. Perhaps the most serious question of all is: Does generation always get enough of the chemical into the clouds to do the type of work desired.

Even slight repressive effects from silver iodide on hail could be most valuable, but sorting out the various factors renders evaluation most difficult. The use of the weather radar should be helpful. Study alone will indicate whether or not radar can demonstrate any effects from silver iodide when a hail cloud is followed into a suppression area. If this can be clearly demonstrated it is obvious that the implications of such a de-

demonstration will be intriguing to say the least.

It is expected that radar storm maps, made up from the radar observations, together with the expected hail data sent in by the observers will enable study of the structure, size and life cycle of the storms and, in particular, indicate the significant differences between those storms which produce hail and those which do not.

Careful observations of hailstorms by every possible means in high incidence areas should contribute a very great deal to man's understanding of the problem and ultimately, it is hoped, will enable steps to be taken modifying this violent type of storm.

In addition it may be considered that this co-operative investigation of cloud physics may mark the initiation of the application of meteorology to agriculture in a way not hitherto appreciated.

solve our population worries. An American expert on population estimates that the U.S. population will have increased by more than 60 million by 1975. At current rates of increase the population could be half a billion in 100 years hence. He states that long before that time arrives, "sheer numbers will restrict our mobility and completely change our way of life, compressing our society and culture into molds utterly inconceivable to us now."

#### Monkey business

128,261 monkeys were sent from India to Canada and the United States from April to October last year. They were valued at nearly \$2 million dollars. The monkeys were sent to North America for scientific research.

#### Fancy prices for fancy goods

"If consumers want to buy food in fancy packages they can expect to pay more," the Royal Commission on price spreads was told recently by a spokesman for the fishing industry. He said merchandisers find there is a better sale for goods that are cleaner, better packaged and attractively displayed — and which are as nearly ready to be cooked as possible. He stated that the retailer is demanding this type of packaging to increase sales.

#### Too many people?

CANADA may well have an over-flow of population from the United States in the near future that will perhaps more than



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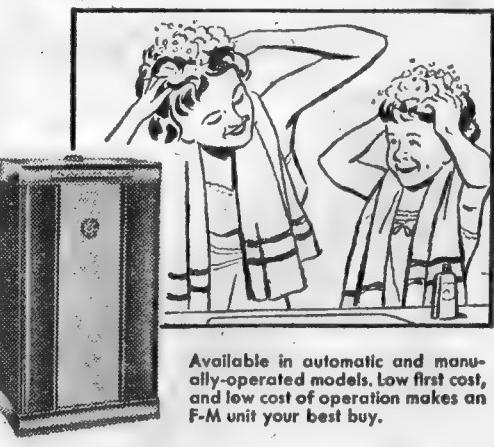
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# The feeders' clinic

Have you livestock problems? Everybody else has them!

Grant MacEwan provides some answers to the questions  
that arise in the modern livestock operation

By GRANT MacEWAN

QUESTION — We feed bone meal to cattle; why not bone meal for pigs?

Answer — Common grains and mixed supplements contain enough phosphorus to meet a growing pig's needs, but additional calcium may be required. Hence, those animals whose rations are basically grains respond better to a high-calcium supplement like limestone than to a carrier of both calcium and phosphorus like the bone meal.

QUESTION — Is ground flax-

seed a satisfactory substitute for linseed oil meal in ordinary rationing?

Answer — No. The two concentrates, though related in origin, are quite different in character, especially in balancing ability. Flaxseed, with the singularly heavy content of oil, is usually too high in commercial value to justify use in livestock feeding. There are exceptions, however, and if circumstances place the flaxseed within the practical reach of feeders, then certain other distinctions and limitations can and should be recognized.

As a feed, flaxseed is laxative and capable of imparting bloom to an animal's hair and hide. But it has only about two-thirds as much protein as its by-product, linseed oil, and therefore lacks much of the supplementing or balancing power for which linseed oil meal has long been sought. Moreover, anyone feeding flaxseed should guard against the dangers of prussic acid poisoning contained in those samples which have suffered from frost or setback prior to crop maturity.

QUESTION — How much grain and hay does it take for every hundred pounds of increased weight in feeder cattle?

Answer — Reports from the Lethbridge Experimental Farm suggest 425 pounds of barley and 490 pounds of hay per hundred pounds of gain for feeder calves; and 530 pounds of grain and 655 pounds of hay per hundred of gain in the case of two-year-old feeder steers. These figures are quite close to those reported by experimental workers elsewhere.

QUESTION — I am feeding timothy hay stacked without exposure to rain but my cattle are eating less than average amounts of it and are not doing as well as I'd expect. Does fault lie with the hay?

Answer — Timothy was long regarded as a better feed for horses than for cattle. Nevertheless, something else is probably wrong and one must suspect over-maturity at the time of cutting. If that is correct, then the trouble lies in the high fibre or lignification of the plant cellulose. Cellulose, it should be noted, is a carbohydrate material furnishing the structural part of cells and plants. But there is huge difference in cellulose. In young plants the cellulose is in a form in which rumen bacteria can attack it successfully and reduce it to acetic and other acids the animals can use for energy.

But as plants mature, the cellulose becomes hardened or lignified or simply more wood-like. And, to be sure, micro-organisms in the cow's rumen can do practically nothing with sawdust or wood pulp, because the cell structure has become lignified and resistant.

Timothy or any hay left too long before cutting may look all right to the human eye, but it will not be as easy to fool the cow. Of the hay's deterioration as a feed there can be no question. The rate of digestion and passage through the animal's tract will be slower than average for good hay and the cattle, as

has been noticed and mentioned, will eat less than usual amounts. All things considered, the case against late cutting of hay is a strong one.

QUESTION — In pig feeding is there an advantage in furnishing those high-priced mineral mixtures which carry a lot of trace elements?

Answer — Experimental work conducted at the University of Alberta warranted the following statement which pretty well tells the story: "From the results of these experiments it appears evident that supplemental minerals other than iodized salt and limestone are not necessary in rations for growing and finishing swine in Alberta . . . the addition of unnecessary supplements to rations for growing and finishing swine is merely an added expense."

QUESTION — How is pea straw as a feed for cattle?

Answer — Recently reported experiments give pea straw a feeding value 50 to 60 per cent as high as that of alfalfa hay when fed in conjunction with grain and other roughages.

QUESTION — As a dairyman, would I benefit by converting my alfalfa to silage instead of putting it up as hay?

Answer — There has been a lot of interest in alfalfa silage, especially where weather conditions are such as to make it difficult to recover good hay. It is also perfectly true that good silage is healthful and stimulating and most dairymen rate it highly. But legumes, with relatively high content of protein, are not as well suited to silage as corn and sunflowers. And from across the international boundary comes the striking statement: "Cows in Utah prefer their alfalfa as hay rather than as silage. They consume more nutrients, produce more milk and maintain their weight better when fed hay than when fed silage. This was shown in a 3-year study at the Dairy Experimental Farm of the Utah Agricultural Experiment Station."

QUESTION — Are stilbestrol pellet implants recommended for fattening lambs?

Answer — In feeding trials at the Lethbridge Experimental Farm during the winters of 1951-52 and 1952-53, answers were sought to this question. A 12-milligram stilbestrol pellet was implanted subcutaneously in the neck of each of the test lambs and increases in both rate and economy of gains were noted. But the margin of advantage was small, with much of the extra weight appearing to be in higher water content of the carcasses. There was also the observation of additional difficulty in removing the pellets from the slaughtered lambs which had been stilbestrol-treated. Altogether, there wasn't much en-

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thusiasm for this method of providing stilbestrol for fattening lambs.

**QUESTION** — What suggestion for a good mixture for creep-feeding suckling pigs?

**Answer** — The following is suggested: 40 pounds of coarsely-ground wheat, 40 pounds of oat or groats or sifted oat chop (hulls removed), 12 pounds of meat meal or reliable commercial pig concentrate, 4 pounds of alfalfa meal, one pound of ground limestone, one pound salt, one pound of feeding oil to bolster vitamins A and D, and one pound of aureomycin feed supplement. The mixture can be fed from a hopper to which only the young pigs can gain access.

**QUESTION** — If a sow at farrowing time has no milk, how can the baby pigs be reared by hand?

**Answer** — When a sow's milk fails or where the young pigs outnumber the mother's teats, the caretaker must be prepared to transfer a certain number of the babies to other sows or raise them as orphans. If a transfer is to be made, it should be within a few days after the foster mother has farrowed. For hand feeding, a suggested formula would consist of one quart of cow's milk, one teaspoonful of sugar and approximately one-

quarter of a gram of antibiotic. The fluid can be fed from a bottle with nipple for the first few days — five to seven ounces of milk per pig per day. If the young things start to scour, the milk should be diluted temporarily with about one-third of limewater. It is important that the baby pigs be fed often — at least eight times a day and only a little at a time. At from eight to 10 days of age they should be given opportunity to take sifted oat chop (hulls removed) and milk from a trough.

**QUESTION** — What advantage will arise from cooking feeds for pigs?

**Answer** — Generally no great advantage. Garbage, for sanitary reasons, must be cooked and potatoes, for reasons of digestibility, should be cooked for pigs. But as for common cereal grains, any added advantage from cooking will probably not compensate for the trouble and fuel.

**QUESTION** — At what month is native grass at its nutritional best for cattle?

**Answer** — The Manyberries Experimental Station reported June clippings of native forage to average between 9 and 10 per cent of protein. By October the protein was down to six per cent and rate of gains in yearling steers seemed to reflect the

decline. In the early part of the season when grass contained more than eight per cent of protein, gains in the steers averaged 2.43 pounds per day and when the late grass had less than seven per cent of protein, gains averaged 0.93 pound per day.

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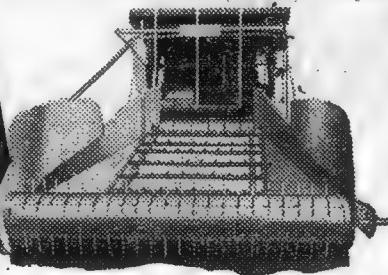
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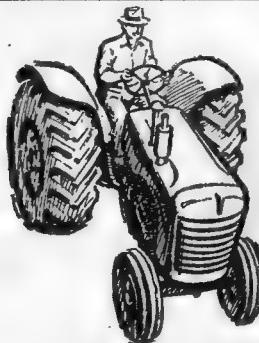
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**Sask. pioneers honored**

TWO northern bays and a lake were recently named after early pioneers and eminent citizens of Saskatchewan: Kiteley Bay, after Dr. J. A. Kiteley, an esteemed pioneer doctor of the province; Broughton Bay in honor of Mrs. Edith Broughton, who made a great contribution to the province through her nursing services. Mrs. Broughton is a resident of Geriatric Centre at Melfort. She has 137 living descendants and was recently honored on her 100th birthday. A lake in the Cree Lake country has been named Huston Lake, after Whitfield Huston, an early school teacher of the Spy Hill district and a pioneer farmer. Mr. Huston was engaged to teach school at Hamona School in 1898. This school was located in Hamona Colony, where the first attempt at Co-op. farming in the West was tried. Mr. Whitfield, years later, was the first Wheat Pool delegate from the district.



Dept. of Agriculture photo.  
Famous Scottish Half-bred Ewe (Border Leicester x Cheviot), with two lambs sired by a Down ram.

The Scottish Half-bred is the most prolific ewe yet developed and the backbone of the British commercial sheep industry. This type of ewe is being developed in Canada from similar crosses and could spearhead a real revival in Canadian commercial sheep flocks. Cross-breeding for multiple births is a direct expression of hybrid vigor.

## *Real possibilities here in sheep production*

Farmers getting into new lines of production might look closely at sheep production. There is an open market for the two main sheep products — lamb and wool, according to livestock specialist J. W. Graham, Canada Department of Agriculture. This country, he says, could quite easily support a national flock up to ten million head, roughly six times the present sheep population of about 1½ million head.

At the present time Canada uses about 60 million pounds of wool, of which no more than eight million pounds is produced here. This country also imports up to 15 million pounds of lamb and still consumes only about 2 lbs. per person. Not many years ago Canadians ate more than four times this quantity of lamb.

So far as synthetic fibres replacing wool in Canada is concerned, Mr. Graham says this is very unlikely because of the long period with freezing temperatures each year. Synthetics are for warmer climates and at best can be used successfully in Canada only in combination with wool. It seems highly improbable that the Canadian sheep industry will run into any serious competition from that source.

A considerable area of land in Canada now cropped is marginal in quality and according to Mr. Graham could be put to better use under pasture. Furthermore, he says, large acreages under rough grazing could be improved considerably. On such land, sheep could readily compete with cattle thus bringing the livestock industry into better balance.

**Labor-saving thoughts**

IN buying a machine to do heavy lifting, the Sask. Dept. of Agriculture recommends looking for one that can do several jobs. A front loader on a tractor can take the back-break out of haying with a sweep attachment. With a grapple fork, the loader can move hay into self-feeders in winter. Another attachment, the litter fork, can help greatly in cleaning out barns. A scoop attachment will move snow and earth around the farm.

A front-end loader, Mr. Peck says, costs only \$300 to \$400, and can be used every day of the year.

A forage harvester is another machine which saves labor and is versatile enough to do several jobs. It can put up dry hay or silage and can chop up windrows behind the combine, making them easier to work back into the soil.

Farm buildings, too, should be versatile. The Department says to build them so they can easily be converted to another purpose, if desired. A machine or stock shed should be built so it can double as a granary.

Work and time can be saved by placing feeds and feeding facilities in a handy position. The inside of a building might be arranged to have overhead gravity feed hoppers and self-feeders placed close to where livestock are housed. Silage in a self-feed silo or chopped hay in a self-feeder where cattle can move it themselves can save much work in daily feeding.

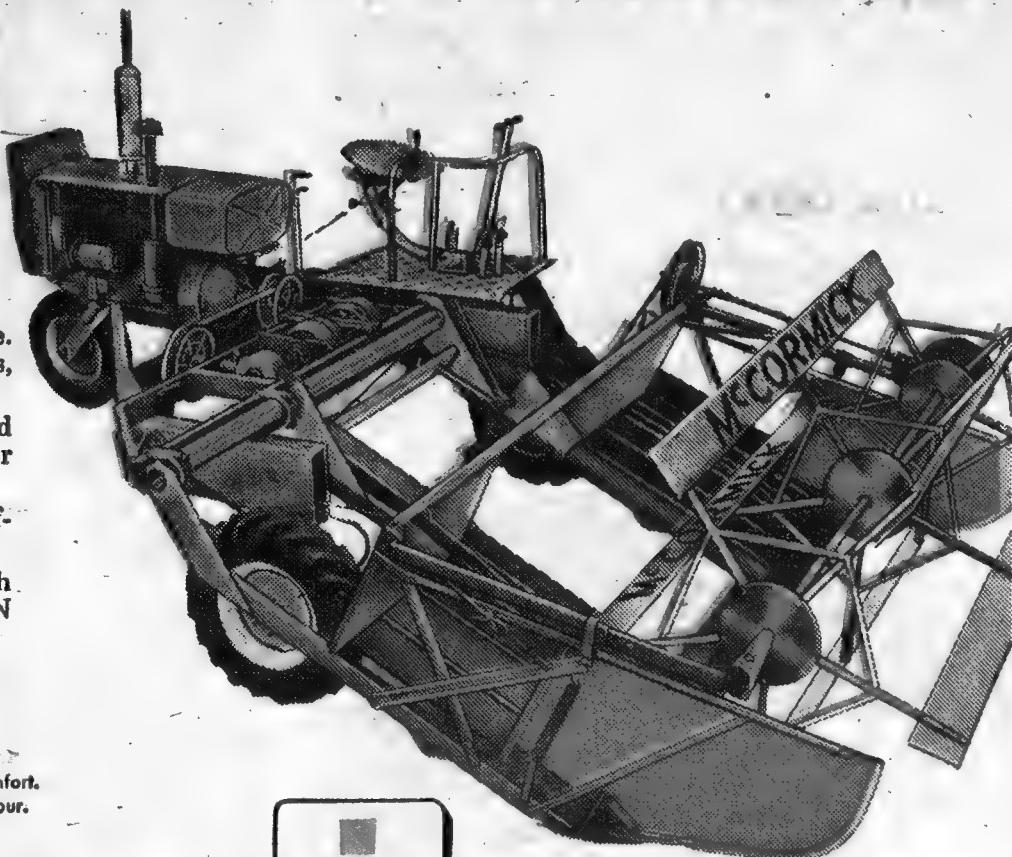
In summary, mechanization of farm chores is worthwhile if it will save hiring help or if it will release the farmer for more profitable work. Often, changes can be made cheaply yet effect great savings in the time and effort.

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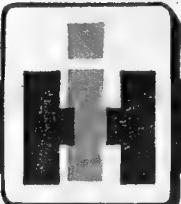
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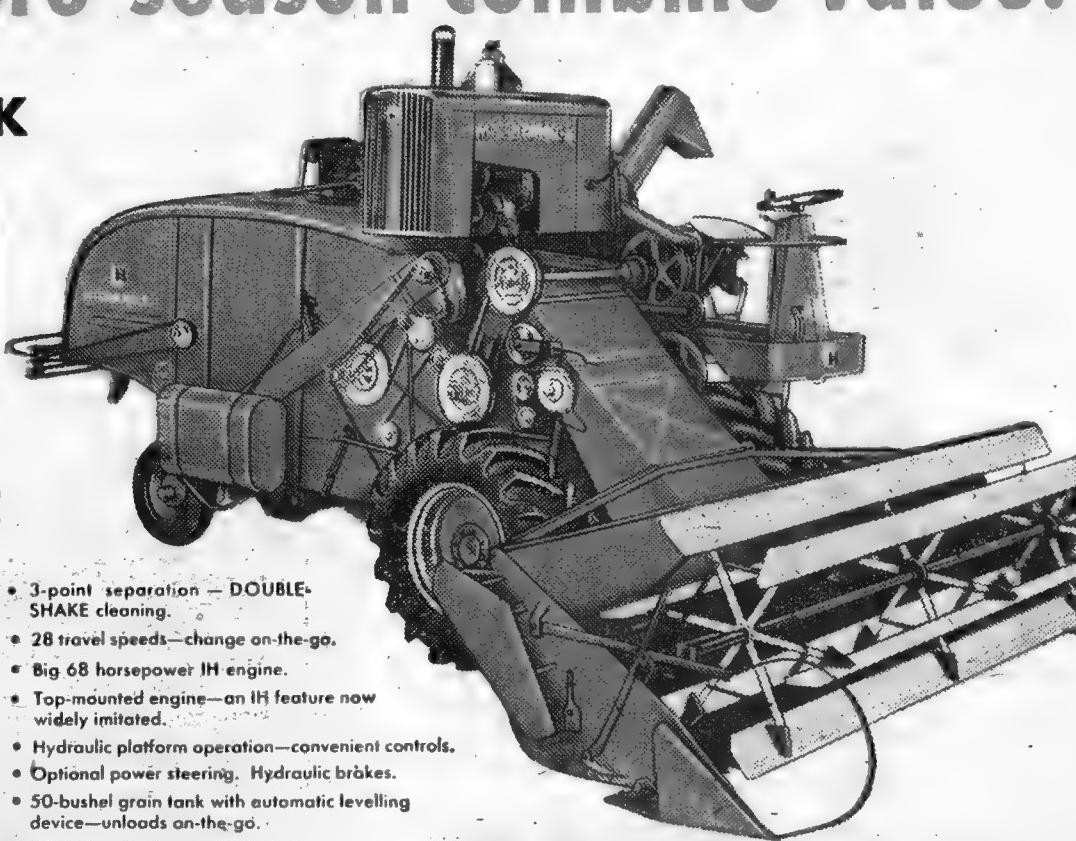
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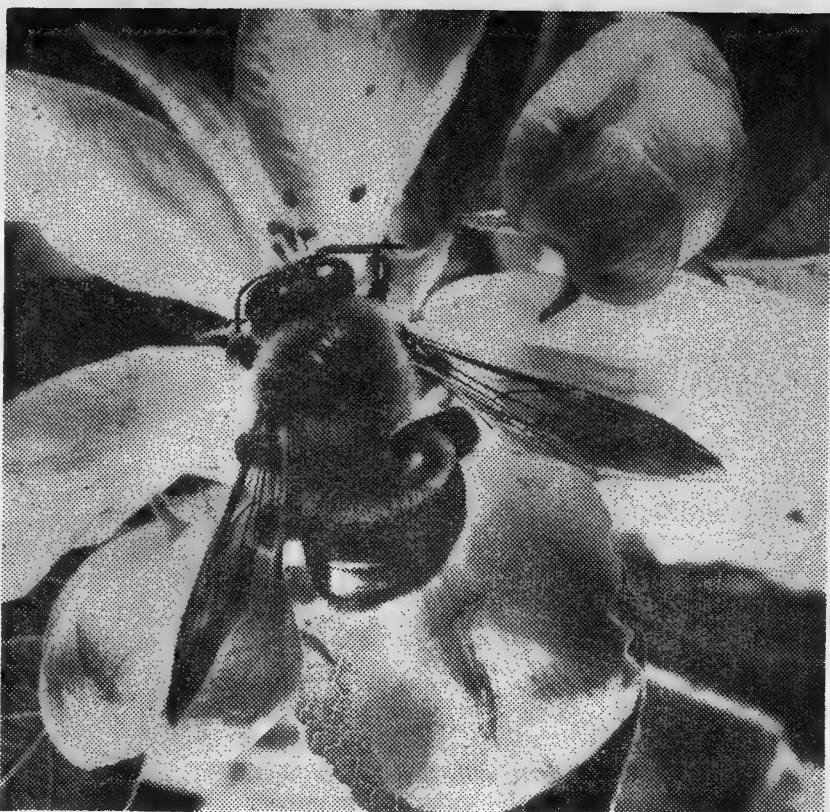
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## ***The useful Bombus***

by Kerry Wood

THE busy Bombus shown in the picture is a bumblebee, the zooming delight of small boys and the fearful nemesis of timid girls. Like the wasps, only young queens of the bumblebee family survive our Canadian winters. Old queens, drone males, and worker-females all die when frosts become severe during the autumn. Young queens mate in September, then find refuge in some underground hole or behind tree bark where they pass the winter in a state of brittle, solidly frozen torpor. When April's warmth makes the pusseywillows hang out their pollen heads, bumblebee queens emerge from hiding and get on with the busy chore of founding new colonies.

A hive-site is first chosen. This varies considerably, according to individual taste. Most of our Canadian bumblebees go underground, utilizing a deserted mouse-hole, the burrow of a shrew, or any small natural fissure in the soil. A few find homes in hollow trees or around town and farm buildings, even a dark interior of a discarded tin can on a dump heap. If you put up bird-boxes in any number, you'll know that a tightly made bird-house is a favorite homesite of bumblebees.

Once the hive location is chosen, the young queen gathers together a few wisps of grass as a base of operations. Next, she constructs an egg cell and places some honey permeated pollen inside as food. Now she lays her first egg. Nearby she fashions a waxen receptacle to hold honey, called a bumblebee "honeypot". In this she stores any extra sweets she can process, to provide herself with food to sip on stormy, cold days when she dare not venture outdoors. More egg cells are built, more

eggs are deposited, also honey-pollen to feed the larvae when hatched. Nearly a month of time elapses between the laying of the first egg until the egg-to-adult development is complete. There are ten days of incubation, a few days of lusty feeding as a larvae, then ten more days of pupation before a small-sized worker female emerges and promptly becomes both a field forager and hive worker to help out the queen-mother.

Bombus, the bumblebee of the Canadian zone, rarely has a very large family, being content with a few dozen workers to carry on the dangerous chore of outdoor foraging among flowers for nectar and pollen. Yet the species is abundant, and their numbers are beneficial to humankind. Without these bees, many an orchard tree or wild berry shrub would never be pollinated, many a flower in garden or field would never produce a fertile seed-head. But the small colonies of Bombus are plagued by many hazards; a very heavy proportion of the infertile worker-females die daily. One crashes against a speeding car to have its life snuffed out instantly; a hunting shrew sees one cupped in a flower head and makes a deadly attack; a small boy swats his cap at a circling bee, knocking it down with a wing injury which causes death. However, enough survive to carry on the hive work, and by summer's end each summer's queen lays a few female eggs and the resulting larvae are fed a special food to turn them into prospective queens. Males or drones are produced at this time, too. Matting flights take place during sunny September days. Then the exhausted workers, old queens, and males die when frosts become severe, while the fertile

young queens hibernate through the winter and start the cycle all over again next spring.

Bees are fascinating creatures. A friend who keeps honey bees tells me that once the commercial box hive is set up, it isn't wise to move it by even a few inches. He once turned a hive at right angles to its former position during mid-summer for some temporary convenience, and was astounded at the number of bees that piled up in bewildering confusion on the side where the hive entrance had been that morning. Apparently the small space of the opening is cemented in a bee's memory when it first emerges from the hive at morning, when it hovers outside the entrance a moment to stare at it with marvelously multiple eyes. Then away goes the bee, any distance up to three miles away. It can come unerringly across the fields, above the trees, over the sloughs and rivers and across Smith's pasture to reach the exact doorslope of its home hive.

American bee-keepers once made a good thing out of mounting their hives on trucks and parking alongside flowering alfalfa and clover fields, where honey-nectars were in plentiful supply. My bee-keeper friend explained that these mobile honey-factories had to be careful to change position at night and be stationary at morning's light. The first time a bee leaves the hive at dawn, it gets a "fix" on the entrance location and its phenomenal memory holds that location image throughout the day. A new fix is taken each morning, hence a mobile, truck-mounted hive has to be in location by morning else the foraging bees would never find their way home.

The first time I saw bumblebees make use of a bird-box as a home, I decided to shift the box location to bring it into a position where the insects could be more readily watched. The box moving was done by daylight — bumblebees are gentle-natured and rarely sting. On this occasion I was able to move the box with a minimum of bumping. The result was a half dozen badly flustered bees, the ones that had been away from home foraging at the time of the shifting. It took them from five to ten minutes each to locate the entrance to their home, which was barely twelve inches from its former situation.

This amazed me at the time. But later, I heard of a family who'd had their small cottage shifted one block from its original site. A relative came to call a week later. This man stood opposite the forsaken lot and started in disbelief at the rectangle of surface foundation left in sight, walked over the old garden, then went back to the sidewalk and tried all over again to find his nephew's home. All the while, the moved house was in full view a scant block away. But the uncle didn't notice it and kept staring in some alarm and dismay at the deserted lot.

Finally a neighbor pointed out the new location, and not until then did the relative get over his shock about the missing house. So let's not scoff too much at mixed-up bees.

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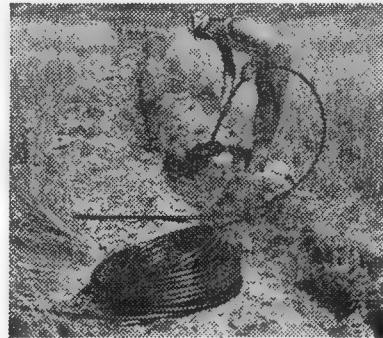
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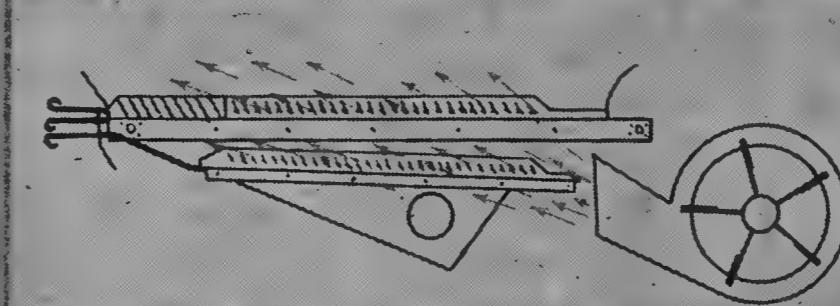
CASE

# Balanced Threshing



CASE 150  
Self-Propelled  
Combine

The Case 150 self-propelled combine is today's finest threshing machine—a combine designed with such perfect balance of all working mechanisms that you get all the crop . . . save those extra bushels ordinarily lost in the field. Header in 10, 13 or 15-foot width gives you acre-eating, time-saving harvesting . . . lifts hydraulically from 2 to 32 inches for all crop heights. Spike-tooth cylinder with thorough combing action or aggressive, yet gentle new-type rub-bar cylinder easily handles large, steady flow of crop. Extra-long, unit-type straw rack or optional four-section straw walker stretches out separation area to save bonus bushels of grain usually trapped in the straw. Sieves the same width as the cylinder and straw rack provide even distribution and thorough separation of seed from chaff. Hydraulic speed control gives you infinite range of travel speeds to match ground and crop conditions. Optional power steering makes driving easy in soft, loose soils and on turns.

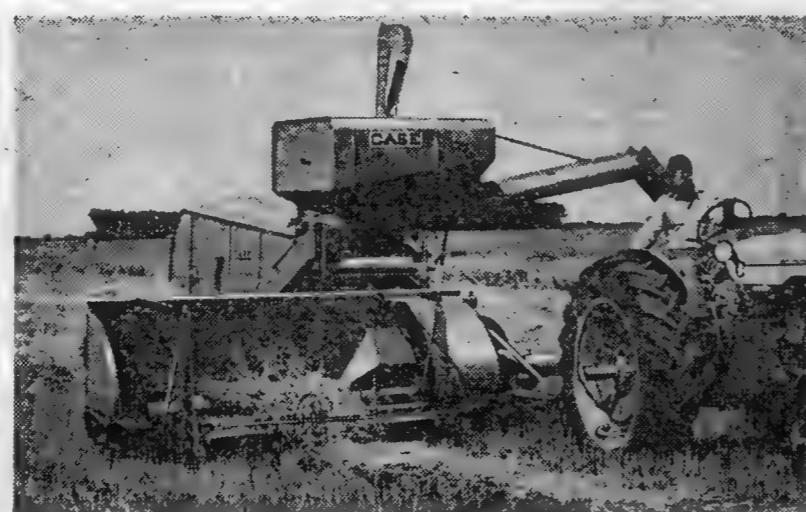


Case "Air-Lift" cleaning shown at left provides balanced, uniform air pressure across full width of shoes. Controlled updraft keeps sieve openings clear, lets kernels fall free and clean as dirt and chaff are floated away. Optional Case-built roto cleaner removes weed seeds from grain, or separates crops grown together.



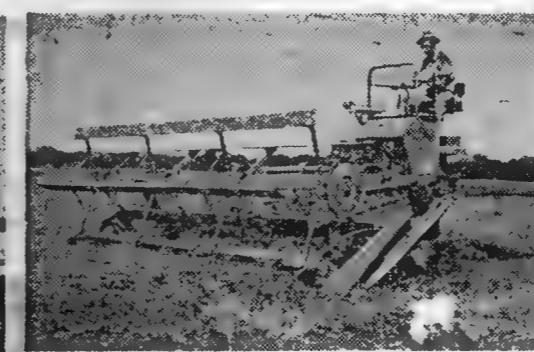
CASE 77 7-Foot Combine

This popular new combine . . . like all other Case combines . . . is designed to give you "balanced threshing." The new Case 77 has a full-width, smooth-running sickle that cuts cleanly through rank, tangled growth without clogging. Heavy-duty spike-tooth or rub-bar cylinder provides thorough threshing. Variable-speed cylinder drive is easily adjusted with handy crank. Straw rack is extra long for additional separating action. Has Case "Air-Lift" cleaning with variable-speed fan that adjusts to balance air pressure. Choice of PTO or engine drive.

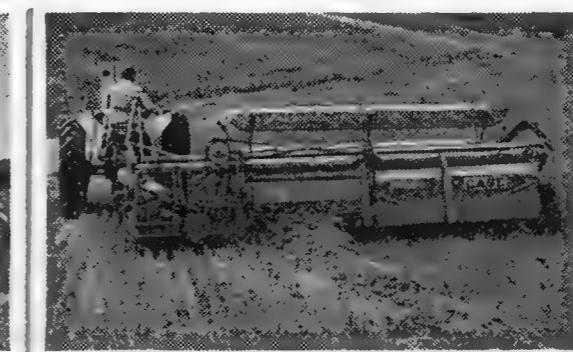


CASE 110 9 or 12-Foot Combine

This 9 or 12-foot pull-type machine has the big-combine strength and capacity for acre-eating speeds . . . the "balanced threshing" design that puts extra bushels in the bin. Header is hydraulically controlled from tractor seat for cutting heights from 1 to 30 inches. Choice of spike-tooth or rub-bar cylinder. Single lever raises or lowers both front and rear of concaves together. Unit-type straw rack or straw walkers. PTO or engine drive. Roto cleaner optional.



Case 840 self-propelled windrower with 12, 14 or 16-foot cut has effortless Vari-steering (standard equipment) that puts power on both wheels. Hydraulics control speed, platform, reel.



Case 740 pull-type windrower with 12-foot cut has straight-in-line PTO for smooth, steady flow of power. Reeladjusts fore and aft, up or down, for varying conditions.



Case E-3 elevator has hinged sides with four settings for small grains to big bales. Specially balanced for one-man set-up and transport. Choice of 4 drives.

See your Case dealer today about these profit-making harvest machines.

New Case Crop-Way Purchase Plan puts a new bushel-saving Case combine or other machine to work now. Make later payments as you have money coming in.



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## Get Big-Acreage Harvesting Facts

Send for Case "balanced threshing" story in the combine size that interests you. Mail to J. I. Case Co., Dept. FR-68, Racine, Wis.

- Case 150 self-propelled
- 840 self-propelled windrower
- 8 or 12-foot Case 110
- 740 pull-type windrower
- 7-foot Case 77 combine
- Case E-3 elevator

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Student

THE horse hasn't quite disappeared in Canada, although it is down in numbers to around 800,000, or about 2 million less than in 1941.

CANADIAN animals were among the leaders at the Wolverine Classic Holstein Sale at Williamsburg, Michigan, in April, six head bringing a \$1,000.00 or more each.

THE Saskatchewan Co-op Creamery, North Battleford, has won the award for provincial egg-grading efficiency for inspection points, with the McIntyre Egg Grading Station at Unity winning for non-inspection points.

A MISSISSIPPI Representative recently stated: "Forty years ago it took a farmer 10 years to lose his farm if he made nothing — today he can lose it in less than two years."

BULLS are not dangerous any more? Every four days in the United States a farmer is killed by a bull.

IT IS estimated that 13 per cent of the Canadian and U.S. population is producing all the food and fiber needed in the two countries. A century ago these requirements occupied 85 per cent of the population.

IN the U.S. 75 to 100 billion gallons of water, or about half the fresh water consumed in the country, is used every day for irrigation.

# ... Pellets ...

THE Agricultural Stabilization Board has been authorized to stabilize the price of No. 1 asparagus produced by Canadian growers in 1958 at 17 cents per pound delivered at processing plants.

THERE is a definite trend towards specialization in hog raising says Animal Science of the University of Alberta. More requests for information on modern housing and equipment have been received by them in the past few months than ever before.

SASKATCHEWAN'S cattle population has increased greatly since 1951. In certain municipalities the increase has been over 200 per cent.

THE Canadian National Railways state that the 2-mile freight train is soon in store for those who like to "watch the trains go by." Not long ago the limit was about 100 to 110 cars, or a train of about a mile in length, but with longer cars and more powerful diesels, each year, 2-mile trains are not far off.

ANALYZING Saskatchewan's farm accidents which resulted in hospital attention (2,700), it has been found that many occurred in farm-

yards from broken glass, debris, discarded machinery, loose fencing and lumber with nails sticking up.

IT may be surprising to many to learn that Saskatchewan, the Wheat Province, has one-third of its area covered by heavy forest growth.

AT the present time only about 5% of British Columbia land area is used for agricultural purposes.

4H CLUBS in Quebec, engaged in forest conservation, have a total membership of around 10,000.

CANADA is offering surplus non-fat dry milk to international relief agencies: United Nation's Children's Fund, the Red Cross, and the Unitarian Service. Present government stocks are about 30 million pounds.

ACREAGE sowed to flax this year is expected to be down about 10 per cent from last year in Canada, and about 17 per cent in the United States.

THE Dominion Bureau of Statistics estimates that the total acreage seeded to wheat will be down about 440,000 acres from a year ago.

A DISTILLERY is proposed for Minnedosa, Manitoba, at a cost of around half a million dollars. It will employ, as a beginning, about 20 people and consume 1,200 bushels of grain per day. The grain remaining after the distilling process (a top livestock product) will be available to local farmers.

WHERE does the money go? The Federal government in 1939 spent 553 million dollars. This year spending will reach nearly 6 billion dollars.

50,000 homes are damaged or destroyed by fire in Canada every year, with losses at more than \$21,000,000 according to All Canada Insurance Federation. In addition to this more than 500 people die annually as the result of fire.

IT IS estimated that it took 4 to 5 sections of wooded land in the pre-white days to support one Indian.

ABOUT 85% of the cattle and calves purchased as feeders by Ontario farmers last year were from Western Canada.

HOUSEKEEPING families north of Mexico on this continent preserve by canning or freezing more than 150 pounds of food each year.

Poor ventilation is keeping many dairy barns damp and cold, according to the experts, thus lowering milk production and making working conditions uncomfortable for both the dairy cow and the operator.



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Size and Ply.	List Price.	Special Price.	Tube Price.
9x24	\$ 61.55	\$ 43.84	\$ 6.95
10x24	73.40	50.35	7.50
13x24	111.10	75.65	11.50
13x24	130.50	85.12	11.50
10x28	85.04	56.10	8.95
11x28	96.15	65.64	11.00
12x28	105.90	76.12	11.00
13x28	142.50	84.04	13.00
14x28	174.85	104.36	17.00
15x28	196.25	123.01	17.00
14x30	193.50	111.69	22.00
15x30	234.30	128.95	22.00
9x32	74.80	53.48	8.95
14x34	221.30	123.95	24.00
15x34	249.95	142.35	24.00
10x36	101.90	67.17	11.00
11x36	135.50	77.37	13.00
11x36	158.75	87.12	13.00
12x36	141.75	85.47	16.00
12x36	147.50	95.13	16.00
10x38	107.85	70.38	11.50
10x38	123.15	79.12	11.50
11x38	122.40	79.73	13.50
11x38	140.80	89.50	13.50
12x38	150.70	103.83	13.50

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700x15	\$ 53.35	\$ 34.95	\$ 4.00
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650x16	49.75	30.95	3.50
700x16	54.65	35.95	4.00
750x16	69.75	39.95	5.25
750x16	78.90	45.95	5.25
700x17	59.65	40.95	5.00
700x17	69.00	43.50	5.00
750x17	85.10	49.50	5.00
700x20	77.80	51.50	5.00
750x20	96.70	61.95	6.95
750x20	113.75	68.95	6.95
825x20	136.95	99.50	8.00
825x20	157.15	102.50	8.00
900x20	174.85	109.95	9.00
900x20	201.20	123.50	9.00

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Unconditionally Guaranteed in writing for 12 months against all road hazards.

Rayon Tube Type

Size and Ply.	List Price	Introductory Price	Special
670x15	\$ 19.65	\$ 14.62	Black Tubeless Nylon

670x15	4	\$ 33.90	\$ 20.67
710x15	4	38.10	21.68
750x14	4	35.50	20.02
760x15	4	41.35	24.78

Add \$3.00 to above for White Side Wall.

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List Introductory Price Special

750x20	10	\$ 113.75	\$ 67.88
825x20	10	136.95	91.06
825x20	10	180.65	98.42
900x20	10	192.35	113.75

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Special Instructions

# Plastic for your silos?

THE swing to grass silage gained impetus when experiments conducted proved that grass preserved in this fashion could satisfactorily replace even the best hay. These experiments showed grass silage to be relatively rich in protein, calcium and carotene. While somewhat lower in digestible nutrients and net energy than hay, it was slightly higher in protein.

Two recent developments have further encouraged farmers to use this type of feed for both dairy and beef cattle. One was the invention of harvesting machinery which greatly reduced the labor of handling green grass; the other — the horizontal silo which made possible self-feeding of silage. Studies at the Central Experimental Farm in Ottawa indicate that self-feeding of silage may reduce labor by as much as 75 per cent.

There are still problems to be solved before horizontal silos can be considered completely satisfactory. One of these problems is to find a covering material which will prevent spoilage from exposure of the silage to the air.

Tests conducted by the United States department of agriculture at Beltsville, Md., may have solved this problem. Two neoprene-coated covers were tested for two seasons. Not only did they reduce spoilage to an almost negligible amount but they proved to be durable and less subject to accidental damage from handling than some materials.

The two silos used in the tests were 14 feet wide, eight feet high, and 66 feet long. Their sides were made of matched lumber, lined with rolled asphalt roofing, and their floors of concrete. They were located on well-drained sites.

In 1955, unchopped and chopped first-cutting grass was stored in the two silos. The covering material originally planned was not available, so temporary kraft paper covers were lapped and weighed with a layer of fresh, unchopped grass. These temporary covers were removed one month later and replaced by neoprene-coated with cemented seams. The edges of the covers were weighted with railway ties, and the central portion with a two-to-three-inch layer of sawdust.

Top spoilage losses observed in this test showed that the neoprene-coated covers reduced losses to two pounds per square foot.

The coated covers were used exclusively in 1956, weighted in the same manner. Forage of chopped first-cutting orchard grass was harvested in May and the silos opened for feeding in December. Almost 90 per cent

of the silage was found suitable for feeding. Total spoilage was reduced to four-tenths of a pound per square foot of top surface — as compared with six to seven pounds in the first tests with unsupported covers.

A coated tarpaulin is weather-resistant, light in weight and can be handled easily. When used to cover a horizontal silo it will not stick or freeze to the ensilage, and can be easily manipulated by one man to allow self-feeding of cattle.

## Poultrymen labor-savers

POULTRYMEN lead the entire livestock industry in the use of labor-saving devices, according to the Saskatchewan Poultry Commissioner.

The community nest has greatly cut the labor involved in egg-gathering. Not only that, but eggs are cleaner, less are broken, and many poultrymen have mechanical aids to help in gathering eggs from the nests.

Mechanical egg washers save a great deal of hard, and time-consuming work.

Automation shows up particularly in the feeding and watering of birds. Bins in the poultry loft store feed and drop it into self-feeders when needed, without handling by the operator. Larger poultry houses often have automatic feeders switched on at intervals by time clock.

Most of such feeders are suspended a foot or so above the floor so cleaning up is made much easier.

Labor is also reduced in range feeding with self-feeders filled by a vehicle-drawn grain tank. Many feeders use augers in refilling feeders.

In the poultry business there is a great variety of automatic waterers. Most are operated on the principle of a float which releases a jet to fill the fountain when water level is low.

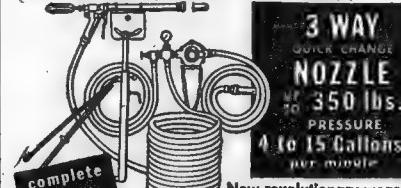
Electricity, to the poultryman is invaluable. In addition to operating many of his mechanical aids it keeps water from freezing and provides as many hours light in brooder and laying houses as the operator desires.

## MULTI-PURPOSE Broad Jet & Cattle Sprayer

All around Hi-pressure Sprayer for cattle, other livestock, orchards, buildings, fence rows, roadsides, irrigation ditches. Three-way nozzle lets you spray up to 56-ft. for field and crop work.

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SWIFT CURRENT, SASK.

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"The Stockman" - \$149.00

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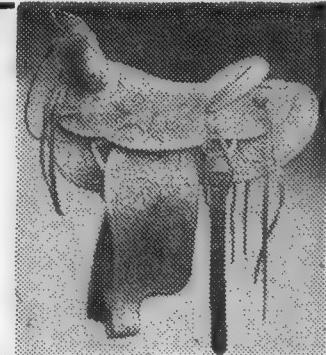
We Pay Shipping Charges.

**MCINTYRE'S SADDLERY**

SWIFT CURRENT, SASK.

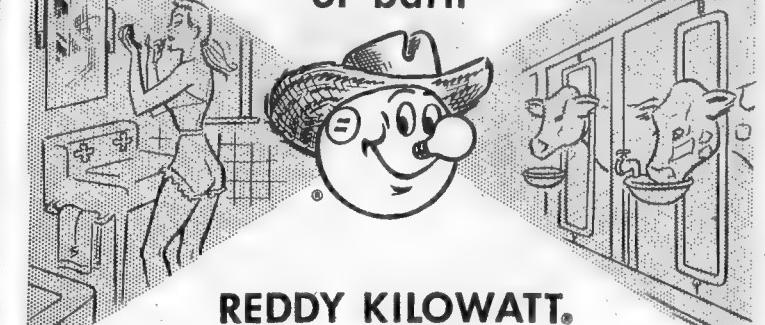
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GEES are very economical to raise because they require so little grain. They are strictly herbivorous and if given grass to pasture on they practically raise themselves. My trial and error method of raising them this year made a lot of extra care and work as well as quite a few errors but the results more than compensate.

If you make your own feather pillows you will revel in the amount of feather produced by each goose. By the time they are ready to kill they have a good winter coat.

My first mistake was in a young goose and a young gan-

# I learned by raising geese

by M. O. Myers

der, in fact in the long run I had two young geese and one old one with the gander. My old geese was a treacherous old bird when danger threatened her young, but, of course, that is what they are supposed to be. A goose has a hard ball on the first joint of the wing and this is

just like a stone. They use it plenty when fighting off enemies. They also have a very sharp end on their beak which can do serious damage as I can well testify because my old bird hit me on the side of the head this summer and the blood flowed freely.

I guess mistake number two was in keeping three geese with one gander. All these things I learned during the summer from experience and hear-say, when it was too late to benefit. Only two geese to each gander are recommended and one old goose raiser told me that I would have better success in the long run

convenient for him to have a name. When a goose was on her nest and I would start over in that direction Gabriel would let go with a loud bugle that would warn her. Sometimes she would answer and save me a trip as I could rest assured that she was safe and on the same nest. They are interestingly clever in many ways.

They should nest on the ground so the eggs will not get too dry and hard. Another mistake I made was in letting one set in a shed with a board floor. The space under the floor allowed air to circulate and it seemed the goose could not keep the eggs warm. By hatching time she had her nest built up a good eight inches from the floor. How she could add more depth to the nest and yet keep the eggs on top I do not know. But they did not even germinate even though they were a mixture of all the geese eggs.

If a water puddle or slough is

**It Pays to Install a**

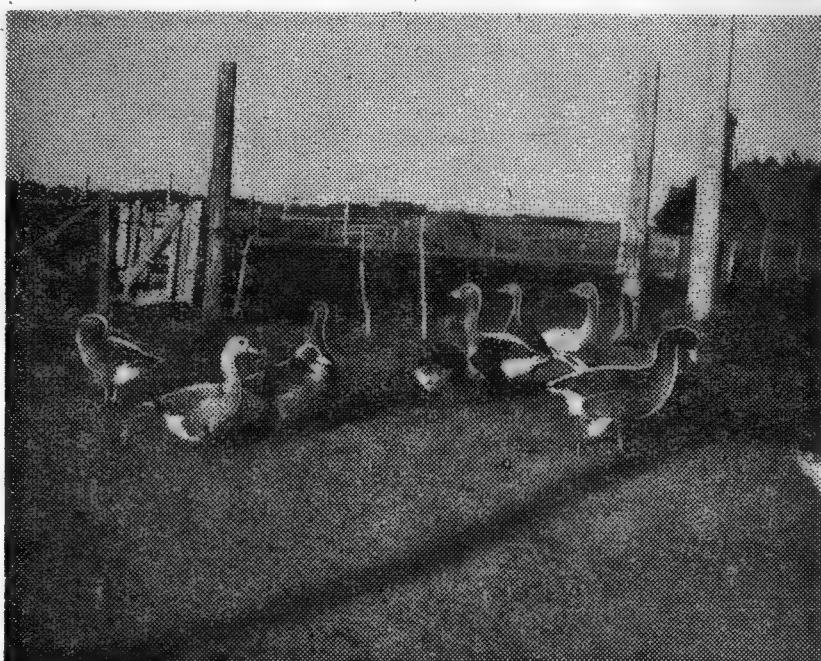
## JENSEN WATER SYSTEM

Pump Handle Pete says: "After settin' on that jury I'd say that woman always pays — unless, of course, she has a father, a husband or a good lawyer."

Speaking of paying—we know thousands of folks (including drillers) who will tell you JENSEN AUTOMATIC WATER SYSTEMS pay too!

You bet they pay, in a hundred different ways. Plenty of water for kitchen and bath. Better fire protection. Better production for poultry and livestock. The Jensen can be powered by gas engine or electric motor — no worries about power failures.

JENSENS are economical and dependable, and are backed with a 5-YEAR WARRANTY. Insist on the water system that's built with all the know-how of the oil industry — the Jensen.



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over the interior surface of concrete steel and wood stationary drinking tanks.

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Just clean the surfaces and brush on 2 coats.

It's packed in 46-gallon drums, 5-gallon cans and 1-gallon cans with coverage approximately 60 square feet per gallon for 2 coats.

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if I stayed with one goose and gander. And the older they are the better. A goose is good yet at six years and a gander at eight. I dread ever tangling with my old goose at that age if she gets more severe with age!

A young gander's fertility is so low that it is sometimes not worth while to set the eggs, and the same applies to a young goose.

Another mistake was in adding more geese after having had the gander and one goose together for awhile as adding more geese to his harem is not good in a goose-sense.

Geese only lay every other day and start early in March as a rule. They should have a house of their own so they can be locked in while they lay and until they get firmly established. When they lay inside, the eggs do not have to be gathered if the weather is not too cold. They seem to hatch better if left to collect in the nest and the goose seems more contented.

The boys named my gander "Gabriel" and it seemed quite

not accessible to the goose, her eggs should be sprinkled with water near hatching time so they will not be too brittle for the young to break out. As soon as a gosling is hatched it should be removed from the nest and given a couple of drops of water to start it out right. Sometimes the eggs are slow hatching and the goose will leave the nest as soon as the first goslings are ready and the rest of the eggs will be left even if some of them are just hatching.

Goslings are great pets and it seems they will take up with the first moving sound they hear after they come into this world. I had to keep two of them around the house for a few days and they would not leave me. Gabriel tried so hard to adopt them but they seemed frightened of him. I tried hard too, to get them to go with the rest, but it didn't work. I had pets for the rest of their lives.

Adult geese are, unlike chickens, very good to take new goslings into their fold. Gabriel,

like most ganders, leads in this field. He would come to meet me last summer as soon as he heard the young bird and mother it back to the flock. Also unlike chickens, geese are very good to wait on little stragglers that cannot keep up or ones that get tangled up in weeds.

Geese are very curious and have great confidences over ordinary things. My flock would gather around a car and chatter away while they were pecking at the chrome on the hub caps or at a valve stem. They took a great deal of chrome off my son-in-law's car and loosened the valve caps many times. Another thing they could not resist was to grab at the v-belt on the little pump gas motor with their

beaks while it was going. Each time they came near when the engine was not going they would pull the spark plug wire off. I wondered what would happen if they tried this while the thing was going.

During the early morning hours the two pets would come to the bedroom window and rattle the window screen. No more sleeping with such a noise going on! They followed me everywhere, even after the cows in the pasture if I didn't slip away quietly.

With a fine flock of Christmas dinners in the yard last fall I have determined to correct my past mistakes in an effort to do better this coming year.

## Salmon catch down in 1957

LAST year the British Columbia Sockeye crop amounted to only 225,000 cases as compared with a five-year average of 440,000 cases.

This catch was shared with buyers in Britain, a market most important in absorbing the surplus in average years. This meant that to adequately supply the Canadian market the Sockeye short supply had to be augmented with imports from Japan, which is the reason Japanese canned salmon has been so much in evidence in Canadian food stores, a situation of puzzlement to many consumers.

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Complete line of PROVED

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Treatment and Preventives . . .

• For HIGH-POTENCY ACTION . . .

### THE NEW 4-SHOT SELECTA



ACCURATE—Disposable syringe container measures out precise 6 c.c. shot to each quarter.

SAFER—Fresh sterile tip provided for each teat.

BETTER ANTIBIOTIC ACTION—Contains Procaine Penicillin, Dihydrostreptomycin, Sulfa-thiazole, and Sulfamylonamide.

FASTER—Treat all 4 quarters in less than a minute.

BETTER PENETRATION—Liquid vehicle provides top penetration and spreading through quarters.

For Treatment by Tube. Your choice of 4 formulas. 7.5 gram size.

No. 12—100,000 I.U. Potassium Penicillin

No. 14—150,000 I.U. Potassium Penicillin; 125,000 meg. Dihydrostreptomycin.

No. 16—300,000 I.U. Potassium Penicillin; 225,000 meg. Dihydrostreptomycin.

No. 24—600,000 I.U. Potassium Penicillin; 225,000 meg. Dihydrostreptomycin.

• For Preventive Treatment. Antiseptic BALSAM OF MYRRH.

An external antiseptic dressing for treating bruises and cuts that might infect teats and udders with mastitis—causing bacteria. Contains 76% alcohol.

Ask for HANFORD'S at your dealer's or farm supply store.

**G. C. HANFORD**  
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Brockville, Ontario.

## Fire warning!

PRAIRIE fires are already becoming a hazard in Saskatchewan, the government warns.

It is reported that several prairie fires occurred in the last few weeks, and the following warning, in order to avoid further prairie fires has been issued:

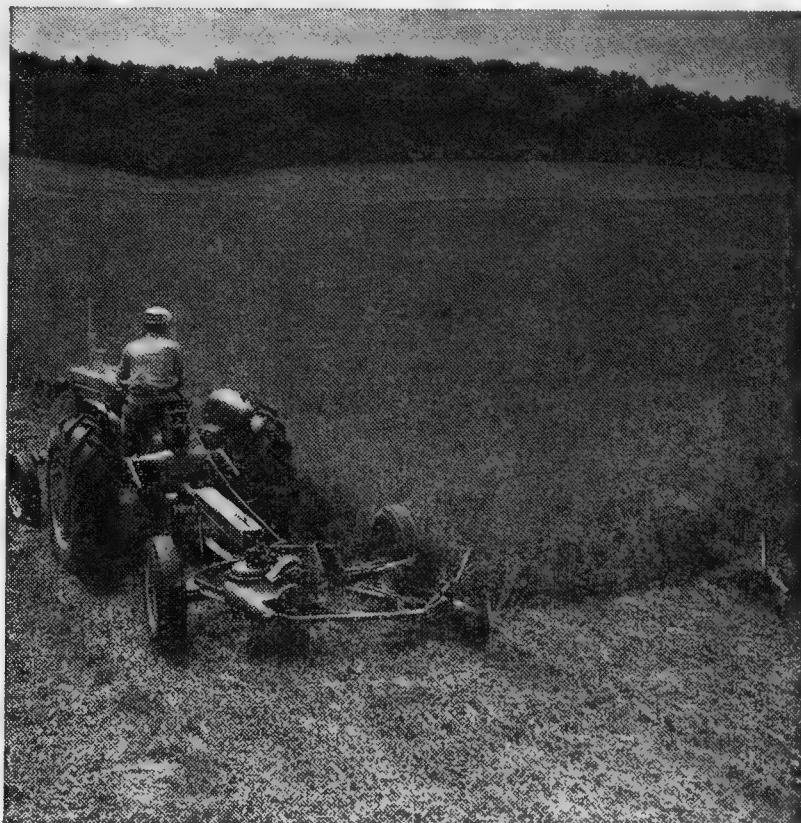
Farmers who plan to burn stubble or dry dead grasses on their land should plow suitable fire guards around the area to be burned. Such fire guards should be at least 20 feet in width. During the continuance of the fire it must be guarded by at least three adult persons provided with proper appliances for extinguishing fires such as brooms, wet sacks, shovels, etc. Fires, of course, should not be lit during periods of high wind.

Prairie fires often result from careless handling of smokers' supplies, or sparks from yard fires. Motorists are reminded that the Vehicles Act states it is an offense for any person to throw or drop from a vehicle upon a public highway, a burning match, burning ashes of a pipe, a lighted cigar or cigarette or any other burning substance.

"Prairie fires themselves are not usually serious from a human standpoint. However, their potential hazard to farm buildings is great if reasonable care and intelligence in handling them is not exercised," stated the Fire Commissioner's Office.



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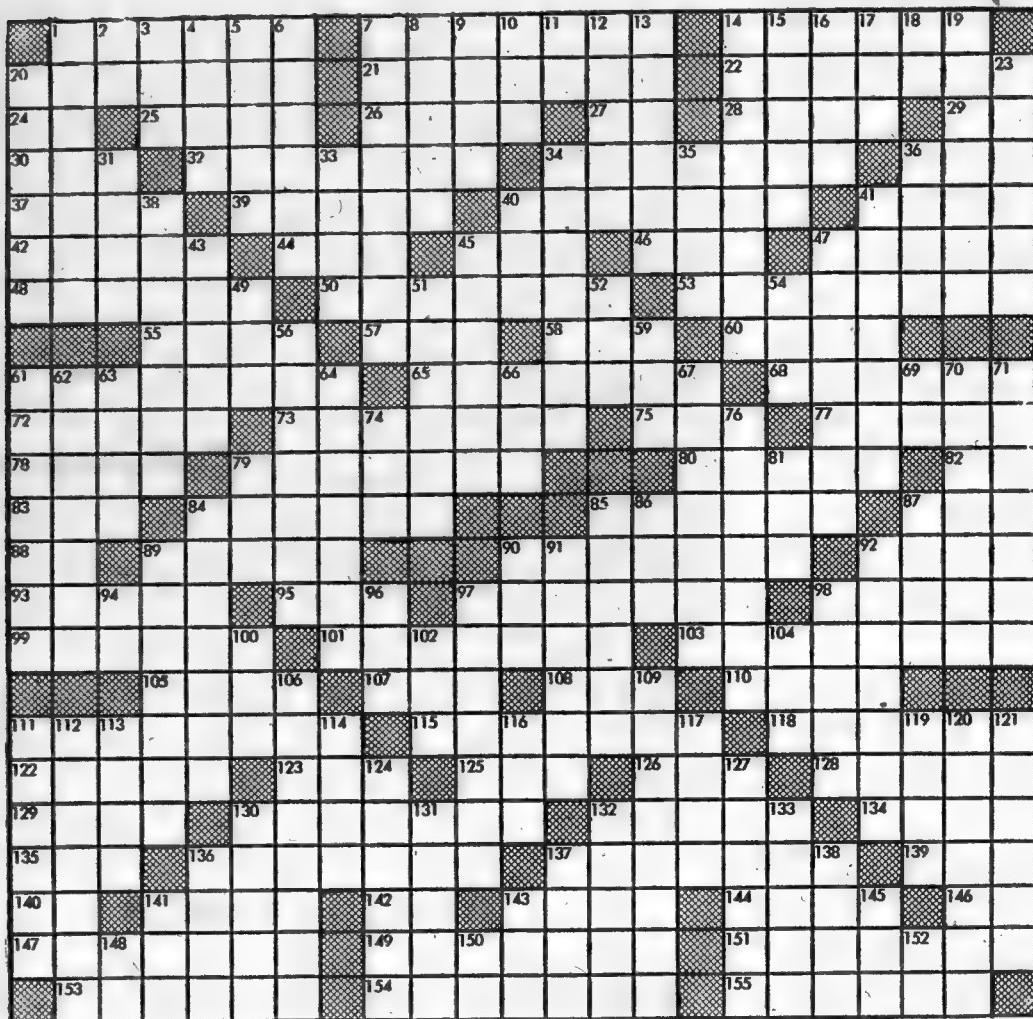
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Calgary, Alberta

## Crossword Puzzle

**ACROSS**

- 1 City of Maine  
7 Bullfighter  
14 Place in juxtaposition  
20 Accept as true  
21 After the fashion of  
22 Arranging in folds  
24 Teutonic deity  
25 Wampum  
26 Egyptian  
27 Delirium tremens (abbr.)  
28 Climbing plant  
29 Symbol for thallium  
30 Equip with weapons  
32 Postures  
34 Hoisting  
36 A macaw  
37 Rivers (Sp.)  
39 Silkworms  
40 American Confederate general  
41 Musical's nickname  
42 Took out  
44 Flatfish  
45 Body of water  
46 River of England  
47 To correct  
48 Scoffs  
50 Hunting dog (pl.)  
53 Gifts  
55 Indigent  
57 Norse goddess of healing  
58 Period
- 60 Here it is! fencing cry  
61 Repudiated  
65 Christian organization that places Bibles in hotel rooms  
68 Small tower  
72 Proverb  
73 Subjected to clever retorts  
75 A Chinese dynasty  
77 Pass a rope through  
78 Prong of fork  
79 More amusing  
80 Peered curiously  
82 Preposition  
84 Beleaguerments  
85 Stations  
87 Girl's name  
88 River of Norway  
89 Parsonage  
90 American explorer and general  
92 Paradise  
93 Celebrated  
95 Child's toy  
97 Aspect  
98 Catkin  
99 Whip-sOCKETS  
101 Feminine name  
103 Spear having three prongs (pl.)  
105 Profound  
107 Nothing  
108 Compass point
- 110 Agitate  
111 Adversary  
115 Showered rain and snow  
118 Soaked (dial.)  
122 Issues from a source  
123 Anglo-Saxon coin  
125 Termination  
126 Roman bronze  
128 Intelligence  
129 Winnows  
130 One who looks with favor on (pl.)  
132 Widow of two cards in game of same name (pl.)  
134 Kind of fish  
135 Pigpen  
136 Small pincers  
137 Command  
139 Small boy  
140 French for "and"  
141 Terrifying person  
142 Japanese measure  
143 Poison  
144 Wander  
146 Hebrew letter  
147 Field of activity  
149 Mexican dish (pl.)  
151 Warbled  
153 Vegetable  
154 Trappers  
155 Vendor

**DOWN**

- 1 County in Michigan  
3 To blight  
4 Command to horse (pl.)  
5 Egg-shaped  
6 Consider  
7 Member of a fraternal order  
8 Succulent plant (pl.)  
9 Military signal: lights out  
10 Danish territorial division  
11 Perform  
12 Queerer  
13 To slow down  
14 Counsellors  
15 Publish  
16 Sharp pain  
17 Unclose  
18 Spanish for yes  
19 A new member  
20 Opposes to the face  
23 Organ of body (pl.)  
31 Burrowing animal  
33 Island west of Sumatra  
34 Accumulated  
35 Vice president (dial.)  
36 Solar disk  
38 Slow percolation  
40 Legal cost  
41 Bedaubed  
43 Male bee  
45 Umpire decides if It's one  
47 Confirms  
49 Drunkard
- 51 River of Asia  
52 Canals connecting Lake Superior with Lake Huron  
54 Consume  
56 Bid  
59 Tons (abbr.)  
61 Apportion out sparingly  
62 Version  
63 Walking stick  
64 Underground prison  
66 Derivation (abbr.)  
67 Bolster  
69 Syllable of scale  
70 Apparent  
71 Leasers  
74 Chemical suffix  
76 Pressers  
79 Part of fish  
81 International Telephone and Telegraph (abbr.)  
84 Depresses  
85 A pawl  
86 Ostrich-like bird  
87 Arabian seaport  
89 Grasslands  
90 Felix (abbr.)  
91 Showered  
92 Came forth  
94 Symbol for tellurium  
96 Cooking vessel  
97 Hen harrier of Europe (pl.)  
98 Goodbye (Sp.)  
100 Observe
- 102 It is (contr.)  
104 Pronoun  
106 City of Indo-China  
109 Want of strength  
111 Kind of printing process  
112 Large flat dish  
113 Small horse  
114 Journey  
116 Abstract being  
117 Devoid of life  
119 Small insect  
120 One who eludes capture  
121 Transferred by document  
124 Makes aware of danger  
127 Begins  
130 Babylonian deity of alcoholic drinks  
131 Of a Great Lake  
132 More rational  
133 Retail shop  
136 A spiritual power among East Africans  
137 Man  
138 Wicked  
141 Ordinance (abbr.)  
143 Prohibit  
145 Addition of building  
148 Sun god  
150 Child for mother  
152 Football position (abbr.)

**Solution On Page 38**

## Another forage crop

TESTS at the Lethbridge, Alberta, Experimental Farm have shown reed canary grass to be a useful forage grass on irrigated land. For six varieties tested in 1957 the dry matter yields ranged from 3.44 tons to 4.37 tons per acre, and the seed yields from 278 to 428 pounds per acre. In addition to withstanding long periods of surplus water supply, the species showed some tolerance to saline conditions.

## Winning fight with Bangs disease

MANY Manitoba municipalities have been actively conducting vaccinations for control of Bangs disease among cattle and are nearing the point where they can be declared by federal authority as Brucellosis-control areas. It is stated that Bangs disease—which can cause undulant fever in humans as well as abortion and sterility in cattle—has declined considerably in Manitoba since an extensive vaccinating program was instituted.

## Barley research

THE successful release of a new cereal variety can be considered only a temporary victory by the plant breeder. New disease epidemics are a normal function of nature and are always present to reduce yield and quality of varieties which had shown up well when originally introduced.

During the early history of the growing of cereal crops on the prairies, disease resistance was not a concern. Problems of importance were agronomic considerations. Increased yields, earliness and improved straw strength were some of the problems solved successfully through the efforts of a few workers utilizing practical plant breeding methods.

Scientists have now reached the stage, however, where further successes in crop improvement cannot be anticipated by these methods alone. That which has been attained through practical methods must now be consolidated before further steps toward improvement can be undertaken.

In the case of the barley crop, information is required concerning the genetic factors responsible for malting quality and those responsible for disease resistance and of their interrelationships. New sources of disease resistance have to be obtained and an understanding of the physiological implication of disease resistance both on the part of the host plant and the organism.

At the Experimental Farm, Brandon, measures are being taken to provide facilities for more fruitful research studies. Suitable laboratory and greenhouse space will be ready for occupancy early in 1958.

## Warble treatment

**A**BOUT 800 head of cattle of the Empire Valley Cattle Company, British Columbia, have been treated with the Dow Chemical Company warble systemic insecticide, "Trolene". This is the largest single herd to be treated so far in North America. The object of the experiment is to ascertain the economic effects of a properly conducted warble control program applied to an isolated group of range managed cattle.

## Steer weighs in at a ton

**T**HE biggest steer ever sold at the Calgary Stockyards went to Vancouver recently. It is not big enough to feed all the Centennial visitors expected this summer, but it will go a long way. Butchers estimate that 10,000 hamburgers can be got out of the 2,520-pound animal. The average steer at the stockyards is just under a 1,000 pounds. It seems destined for hamburger as few people want regular cuts from a carcass this size. The steer was raised by J. E. Murray, of Gem, Alta. It was six years old and as an experiment it was fed beef ration from a commercial company supplemented with a beef-producing synthetic hormone. It sold at 16¢ a lb. for just over \$400.00. A 3,000-pound steer is said to have been sold at Saskatoon some years ago.

## Protect native grasses

**Y**OUR native grasslands are valuable. You should protect them, particularly in the spring.

This not only insures more feed for midsummer, but also develops a stronger cover against drought and keeps the heaviest producing grasses in a healthy condition.

Protection until mid-June is desirable in order to obtain the highest mid-summer yields of grass. And, any feeding practice which reduces the grazing load during May and early June helps to increase the feed supply later in the spring or by moving portions of the herd periodically to summer pasture.

The most satisfactory method to protect native grasslands is to provide a cultivated pasture for the spring period. In the southern prairies a crested wheatgrass-alfalfa pasture is recommended. 1½ acres of crested wheatgrass and alfalfa will replace 5 to 6 acres of native grass during May and June. In tests the crested wheatgrass-alfalfa mixture has produced from 85 to 120 pounds of steer gain per acre each spring, while the native grass has never produced more than 30 pounds gain per acre. On the basis of the entire summer it has been shown that one acre of the crested wheatgrass-alfalfa pasture plus four acres of native range will produce 1.4 times as much live-weight gain

as will five acres of native grassland alone.

Information regarding seed, methods of seeding, and features of management can be secured from your agricultural representative or your nearest experimental farm.

## Alberta Jerseys win awards

**T**WO Alberta Jersey cows have recently been awarded 4,000-lb. certificates. Merivale Signalman's Auburn—17639—, owned by W. L. Schumaker, Balzac, was one. In 9 lactations she produced 76,148 lbs. of milk and 4,058 lbs. of fat. The other was Design Royal Annabelle—167827—, producing 72,124 lbs. of milk in 9 lactations, and 4,065 lbs. of fat. She is owned by the University of Alberta.

## Tractor tipping

**T**HE Red River Exhibition, held June 21st to 28th at the Winnipeg Arena Grounds, will feature a tractor safety demonstration, given by a team of experts, which will show how to avoid dangerous situations. A tractor, especially equipped for tipping will be provided by implement dealers. Tractor accidents in the province claim 15 or 16 victims each year. High-hitching to axles, turning at high speeds, trying to drive a stuck tractor ahead are given as some of the causes of these accidents, most of which are caused by improper handling. As the demonstration will show, "it only takes two seconds for a tractor to turn end over end—not nearly enough time for the operator to jump clear."

## Poultry Co-op going ahead

**A**LBERTA Poultry Marketers Limited, a province-wide producer-owned and controlled co-operative announced at its recent annual meeting that it had added a 37-acre experimental farm to its holdings. The farm is 12 miles west of Edmonton on the Jasper Highway.

5,000 broilers per week are being turned out at the farm, which is to be an experiment in vertical integration, owned and controlled by a large group of producers, to counteract the trend of raising broilers by contract, or in any manner where control does not rest with the producer.

Head office of this organization is in Edmonton, and besides large plants in Calgary and Lethbridge, it announces that it has fifty branches throughout Alberta.

Alberta Poultry Marketers Limited is a member body of the Alberta body of the Federation of Agriculture, and through this body with the Canadian Federation. In this way, the organization, says it is possible for producers to resolve their problems

into policy and carry out such policies as are in the best interests of the poultry industry.

Ownership in the Co-op is vested in the members by issuing Investment Reserve Share Certificates on a patronage basis. During the past year the organization handled over 8,000,000 dozen of eggs, 5,000,000 pounds of poultry and nearly two million baby chicks, all for a total value of more than 5½ million dollars.

## Hens putting out

**T**HE British hen is making an all-out effort to help sustain the nation's economy. Hens in Britain are laying an average of 22 eggs more per year than in pre-war years, at 171 eggs per bird.

The Farm and Ranch Review is the best bargain in the farm publication field.



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BEST CHEW"

## HESSTON Straw Choppers

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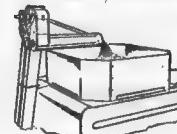


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# Our Annual Meeting

The Annual Meeting of our organization is going to be held in Red Deer this year on Thursday and Friday, June 19th and 20th. This year our organization for the first time in its history is changing its regular procedure of its Annual Meeting by having a two-day meeting instead of just a one-day.

The first day will include the opening of the Annual Meeting, the address of welcome from the Mayor of Red Deer, the appointment of committees, and, of course, the registration of our delegates. Then will come some reports: a report from your Board of Directors and a report from the General Manager. And we anticipate there will be time for the delegates to hear the Supervisor of Co-operatives, Mr. H. W. Webber, and perhaps some other invited guests. Then at 6:15 is our Annual Banquet. Our guest speaker this year is Mr. W. J. C. Kirby, Conservative Member for Red Deer in the Provincial Legislature and currently, also President of the Federal Progressive Conservative Association for Alberta.

On the second day the delegates will have an opportunity of receiving reports from the various departments of our organization. Then there will be the resolutions, general discussion, election of directors for Districts 2, 4, 6 and 8. We anticipate the meeting can be concluded around 4:00 p.m. the second day.

Our organization is part of Canada's great dairy industry. Dairymen in Canada produced in 1957 6½ billion quarts of milk. There is an interesting story where this milk went to. Briefly put, it is:

**For fluid consumption 2,312,000,000 quarts**

**For concentrated milk 183,000,000 quarts**

**For cheese 328,620,000 quarts**

**For ice cream 225,000,000 quarts**

**For butter 3,250,000,000 quarts**

**For other uses, such as**

**plastics, on the farm, etc., the balance.**

Canada's dairy industry is big, and it is growing bigger. It is a good industry. Dairy production of all types does nothing but build stronger bodies and improve our general health. We should feel grateful that we are part of such an industry.

## Central Alberta Dairy Pool

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*"Owned by the people it serves."*



Farm and Ranch Review photo.  
Western Canada is filled with old buildings brimming with character for the amateur photographers.

## Farm and Ranch Photo Corner

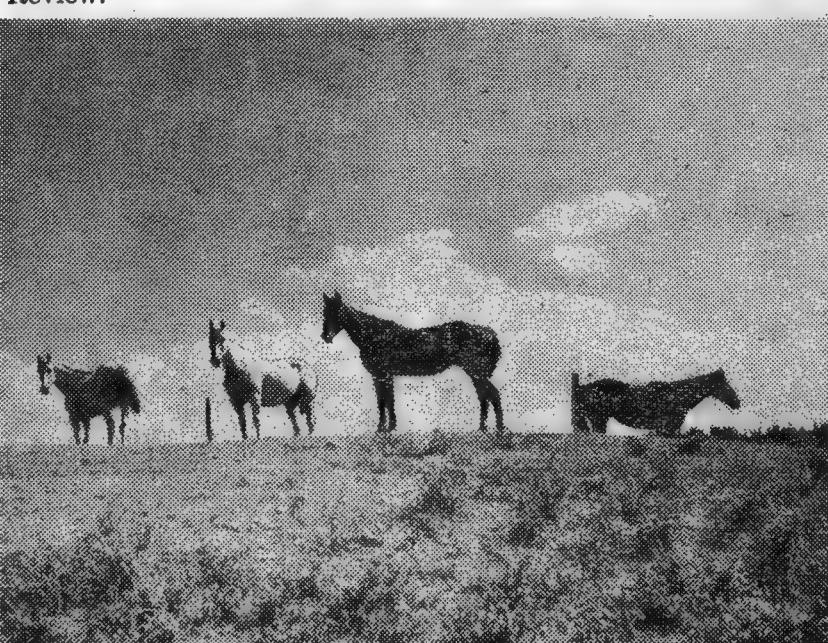
THIS is a picture-taking age. More and more people are getting the camera habit, whether with simple box cameras or the most technical and expensive equipment. Judging by the number of photos submitted by our readers, the interest in this hobby must be widespread across the prairies.

Therefore, starting next month, the Farm and Ranch Review will begin a series of articles on photography especially prepared for our rural readers.

Photography is a wonderful and rewarding hobby for country people. Writers tell us that the best stories relate to the simple things with which we are familiar—not the dramatic scenes in the exotic settings of far-off places. The same is true of pictures. Good pictures are everywhere about the farm and ranch; in our loved ones; our children happy at play; our homes and day-to-day tasks; the people we know and the beautiful countryside in which we live.

Family gatherings, reunions of old friends, anniversaries, weddings, farewells, social events—all are personal events that offer scope for cherished pictures. And the still life—nature in all its vagaries; storms and clouds; the fields and the woods; a favorite old tree, or building; a bridge over the creek—and all the things we want to remember from our travels whether they stem from a Sunday picnic, a day at the circus, a trip to the mountains, or a journey abroad.

Picture possibilities are infinite, and since it is as easy to take good pictures as bad, we hope that we can pass on some valuable tips to readers who are after better pictures. So, get that extra roll of film and be ready for the next issue of the Farm and Ranch Review.



Saskatchewan Government Photo.  
Look for contrasts in everyday scenes. Silhouettes and cloud bring drama to everyday scenes.



C.P.R. Photo.  
A trip to the seashore provides fresh new opportunities for catching waterfront scenes.



Saskatchewan Wheat Pool Photo.  
The settings closest to home provide the best opportunities. Perhaps you have a view like this from your own front window.



C.P.R. Photo.  
By rail, by car or by ship . . . picture opportunities are where you find them.



C.P.R. Photo.  
Wild animals in their natural mountain habitat make interesting contrasts for the camera enthusiast.

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## Surplus food not a problem

THERE are no food surpluses in North Bengal. In fact, the reverse is so far true that native parents are said to have sold children for as little as 70 cents each, in order to prevent children dying of starvation, and to raise money for their own food.

## Huge investment in farms

PROOF that farming isn't done on a shoestring any more, if any is needed, comes from the U.S. Dept. of Agriculture which states that the value of farm equipment on American farms is more than \$18 billion. This figures out to more than \$10 billion over the net investment in the entire steel industry, and five times the total investment in the automotive industry.

## Japan adopts metric system

BEGINNING next January one more country will be using the metric system—Japan. A

law passed to this effect in 1951 will be strictly enforced by the government after January 1st, 1959. This means that the confusing mixture of Japanese, American and European systems of weights and measures now used in Japan will be at an end.

## 54 feet of rainfall

IT'S doubtful if the farmers in even the driest parts of Western Canada would care for the rainfall in Assam, a province of India. Last year a total of 651.47 inches fell here; or more than 54 feet. The average rainfall there is 450 inches.

## Nitrogen plant

AN inexpensive method of returning nitrogen to the soil is by planting an inoculated legume crop and later plowing it under. Inoculated legume seed produces nodules which contain a special type of bacteria that are able to take nitrogen from the air and convert it into a soluble form for the plant's use. Since organic matter holds most of the reserve supply of nitrogen, the nitrogen,

when the turned-under legume decays, is released into the soil. Untreated legume seed depletes the soil's nitrogen supply as it uses it from the soil the same as any other plant.

Grain deliveries in the prairie provinces for 1956-57 amounted to 584 million bushels, a total exceeded only in the crop years of 1951-52, 1952-53 and 1953-54.

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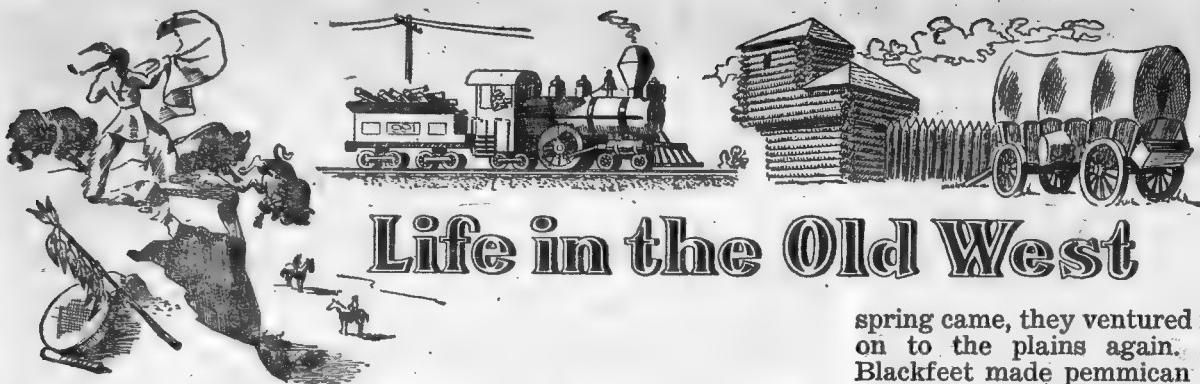
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## Life in the Old West

By Lela Andrews

OF all the Indian tribes that roamed the great North West before the coming of the white man, the Blackfoot nation was the largest, the strongest and certainly the most dangerous. They rambled at will over a huge tract of land extending from the Rockies to the Saskatchewan border, from the Red Deer River southward into Montana. And

because of their amazing skill with horses and with their weapons, they were undisputed kings of their domain.

The Blackfeet got their name from the stain left on their white buckskin moccasins by the coal black ash of burned prairie grass. Prairie fires were common during the hot summer months. Usually, lightning started the blaze and it sped quickly, leaving nothing but charred, black ashes in its wake. Hence, the name of the strongest Indian tribe.

They were strong because, unlike many of their northern neighbors, the Blackfeet never had to face starvation. Great herds of buffalo roamed the plains during the summer months and these provided an unfailing source of food and clothing. In the winter, the buffalo drifted into coulees and creek valleys and into such protected areas as the Cypress Hills and the Hand Hills, but when

spring came, they ventured forth on to the plains again. The Blackfeet made pemmican from their flesh, clothing and tents from their hides and the sinews, split into threads, was the Indian equivalent to string. Even the buffalo dung served as fuel for their fires.

But the Blackfeet were strong spiritually, as well as physically. They had a strict moral code to which they adhered and their camp life was rigid and sternly disciplined. They had a civil chief, quite apart from their war

chief, who's duty it was to keep order in the tribe. He did so with the aid of couriers and a small police force and all disturbances within the tribe were quickly stopped.

Even the games of chance, which took place every evening, were strictly supervised. Indians had a great love for gambling and the favorite game among the Blackfeet was the game of the Elk's tooth. Each Indian piled all of his possession on the ground beside him and the game commenced. The player who won the first toss would take two small sticks and pass them very rapidly back and forth from one hand to the other. Usually, he chanted wildly at the same time in an effort to distract his opponent. Suddenly, he would stop and his opponent had to guess which hand held the sticks. If the guess was right, he took the sticks and began to



Glenbow Foundation Photo.  
The earliest photograph known of a Blackfoot Indian camp. It was taken near the present site of Medicine Hat at the elbow of the Saskatchewan River in 1872, by Charles Horétsky, who was part of the early survey crew for the C.P.R.

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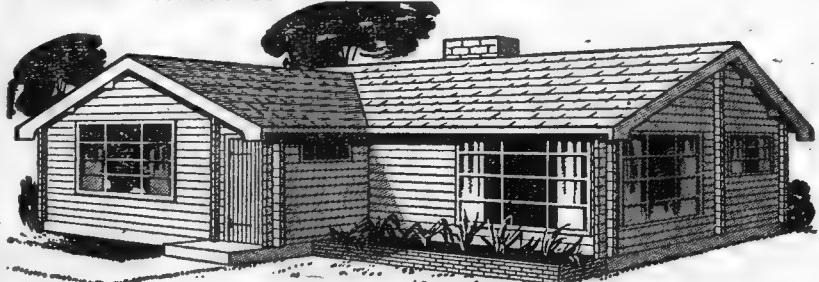
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Howard Cornell, Mgr.

play. If he was wrong, he forfeited one of his possessions.

On a par, perhaps, with the Blackfoot's love of gambling was his love for horse stealing. The horse played a big part in the Indian's way of life and the Blackfeet are believed to have been the first tribe to break and use horses. Anthony Hendry, when he entered the Blackfoot country in 1754, found that the tribe already owned many fine animals and knew how to use them. They had made saddles and halters out of buffalo hides.

Horse stealing was not a crime in the Blackfoot nation. In fact, a skilful horse thief was looked upon with respect in the tribe. For the Blackfeet loved their horses and tried to accumulate as many as possible. Horses spelled wealth. They traded with them and bought their wives with them. With horses, they hunted the buffalo and went to war and one warrior might own as many as from fifty to one hundred good animals at one time.

But in the matter of securing a wife, the horse was all important. Marriages were arranged by the fathers of the prospective young couple.

Young people, themselves, seldom had any choice as to who they were to marry. The father's gift to the bride was, of course, horses and the groom's father gave exactly twice as many horses as the bride's father.

The Blackfoot warrior could take as many wives as he wanted. In all but his first marriage, however, it was just a matter of bargaining with the girl's father. His first wife was known as his "sits-beside-him" woman and she was supreme over all the rest. She sat at his right hand and directed the work of the lodge.

Women, in fact, did most of the work that went on around the Blackfoot camp fires. They did the butchering, cured the meats, tanned the hides, made the meals, raised the children and did the packing, carrying and unpacking of the entire camp whenever a move became necessary. And though they worked while the manfolk enjoyed the pleasanter pursuits of hunting and fighting, they seldom received appreciation for their efforts. All their lives, they were ruled by men and if they were unfaithful, they were often punished by mutilation of their features or, in some cases, death. If a woman's husband was killed in battle, she automatically became the potential wife of his oldest brother.

Unlike the women, a Blackfoot male was free almost from

the very day of birth. His mother never punished him and he was expected to do no work around the camp. Most of his boyhood was spent in games of war and imaginary hunts with other boys, in swimming and wrestling. When he came of age, he was expected to prove his bravery and make a place for himself among the warriors in the tribe.

His first battle was watched with interest by other members of the tribe. Cowardice was a trait the Blackfeet abhorred.

Religion played an important part in the lives of the Blackfeet, too. They made offerings to many sky gods, but the Sun god was supreme over all. It was for Sun that the most elaborate ceremonies were held. The annual Sun Dance was one of these rites and was so brutal that the Mounted Police attempted to put a stop to it, almost as soon as they arrived in the country. With the coming of missionaries, many of the Indians were converted to the Christian faith.

But with the influx of white men and the eventual extermination of the buffalo, Blackfoot supremacy began to wane. Without the buffalo, they could not live in freedom. The race that once had ruled the plains now sought the whiteman's aid to live at all. Their days of might and splendor were behind them. Ahead lay only subjugation.

## Sheep rough on leafy spurge

SHEEP grazing on submarginal lands, or lands not suitable for cultivation where leafy spurge is a problem has proven very effective. The Lethbridge Experimental Farm reports that a stand of this weed growing in a mixture of crested wheatgrass was reduced almost completely in five years of sheep grazing.

The crested wheatgrass had been sown as an experiment in controlling leafy spurge, and while good stands of crested wheatgrass were obtained it became apparent in a few years that its growth would not be successful in eliminating leafy spurge. Sheep were then grazed on the area at a rate of one and a half head per acre for a six-month summer season with the above result. Furthermore there was an improvement in the stand of crested wheatgrass.

## Mulching pays off

A FIBROUS mulch 4 to 6 inches deep applied as a strip 30 inches wide around cabbage and tomato plants in the garden has given marked increases in their yields at the Morden, Manitoba Experimental Farm. Sawdust increased the yield of cabbage by 19 per cent, and cut flax straw by 6 per cent over that obtained from plants not mulched. This is thought to be due to better insulation of sawdust over straw. With tomatoes, straw mulch increased yields by 24 per cent over no mulch.

The period that mulches are put down in the garden is important. Cabbage yields were greatest at Morden when the sawdust and straw were put in place early in the season or soon after the seedlings emerged from field sown seed. Mulching later, when the heads began to form in the plants gave yields much the same as when no mulch was used. With tomatoes, early mulching is a disadvantage. It is better to permit the soil to warm up first. Tomatoes mulched on July 15 at Morden produced yields 52 per cent higher than those mulched earlier and 14 per cent higher than those mulched later. The later mulches apparently were ineffective because of the limited time that they were used.

An additional advantage of mulching is in the reduction of tomatoes rotting in the field when the fruits are kept off the soil in wet weather or when irrigating.

## Electric shock for corn

CORN seed in the U.S. is being given the shock treatment. A device, patented by a U.S.D.A. engineer, gives a uniform and specific electric treatment to crop seeds. It is said to hasten germination and increase water absorption. The machine is a glass tube with an electrode at each end. The electrical energy can be varied and controlled. The treatment, it is stated, can also be used for seed drying and pro-

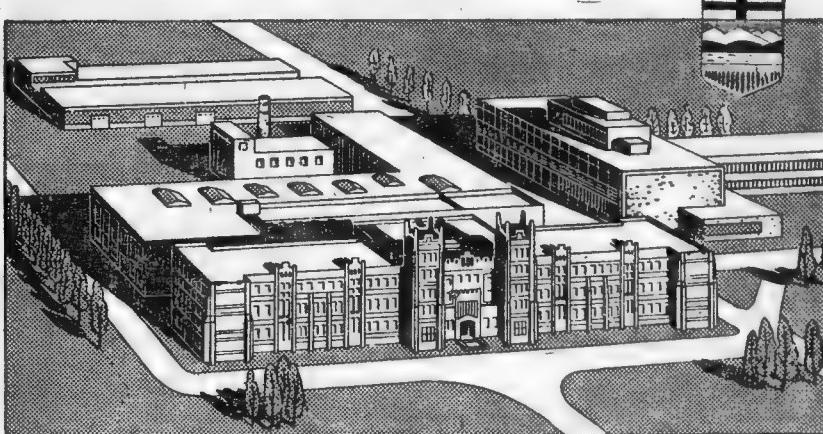
cessing or for destroying weed seed.

## Farmers only hired men

FARMERS becoming mere hired men has become such a problem that the Canadian Federation of Agriculture is getting up a special committee to study the situation. More and more packing houses, etc., are supplying farmers with stock, feed, equipment and paying wages for the work and output.

The Provincial Institute Of Technology and Art

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"Next time - get your haircut first  
— then buy a new hat."



## Aunt Sal

No matter what the season,  
Spring, summer, winter, fall,  
There's sure to pop up problems,  
To vex us one and all.

FIRST off let's get this matter of circular or spiral knit socks cleared off the docket. Thanks to you, kind, helpful readers, I have a whole fistful of these now. Some of you took the time to copy all directions, others clipped them from old knitting manuals and still others gave me general directions "by ear" so to speak. Apparently it is to be found in several old-time books put out by various companies. But if anyone still lacks the minute directions just write me (enclosing a stamped, self-addressed envelope, and I shall forward you the same.)

### DYEING QUESTIONS

Q.: I have a white leather jacket that is pretty hard to keep cleaned

and I wondered if I could dye it black? — (Mrs. B. H., Red Deer, Alta.)

A.: You'd have to be a braver woman than I to tackle a job of this kind. I think in a city like yours there should be a dry cleaner able to do it or he can tell you where to send it.

Q.: What procedure must be followed to get good results in dyeing a beige plaited wool skirt? — (Mrs. T. F., Hague, Sask.)

A.: It would take too long to give you full directions, but you buy a package of dye and read every direction carefully and follow them to the letter.

### REQUESTED RECIPES

Q.: Do you, or any of your readers, have a recipe for cake, using an over-night bread sponge? — (Mrs. E. T., Amulet, Sask.)

### A. SWEDISH CHRISTMAS CAKE

(This is one on that order.)

1 quart sifted flour.  
1 cup lukewarm milk.  
½ lb. butter.  
2 envelopes of yeast.  
½ cup sugar.  
1 cup seedless raisins and 1 cup chopped citron.  
8 cardamom seeds or one tsp. nutmeg.

METHOD: Dissolve yeast in ½ cup lukewarm water with 1 tsp. sugar. While this is getting ready, rub shortening into flour and bruise the cardamom seeds with rolling pin. Add sugar and fruits to flour mixture and then yeast. Mix dough well, adding the milk and let rise for about 1½ hours or until light. Work it down and put into greased pans and let rise again. Bake in moderate oven for one hour.

Q.: Please tell me how to make long Johns like one can buy in the bake shops. — (Mrs. E. A., Loon Lake, Sask.)

A.: I'm not familiar with this confection at all by this name and I don't find it listed in any of my numerous cook books. I'm sorry.

Q.: I would like the recipe for pickled eggs. — (Mrs. A. M., Sheho, Sask.)

### A.: PICKLED EGGS

Shell 6 hard-cooked eggs and stick four cloves into each. Place them in large jar and heat vinegar solution and pour over them.

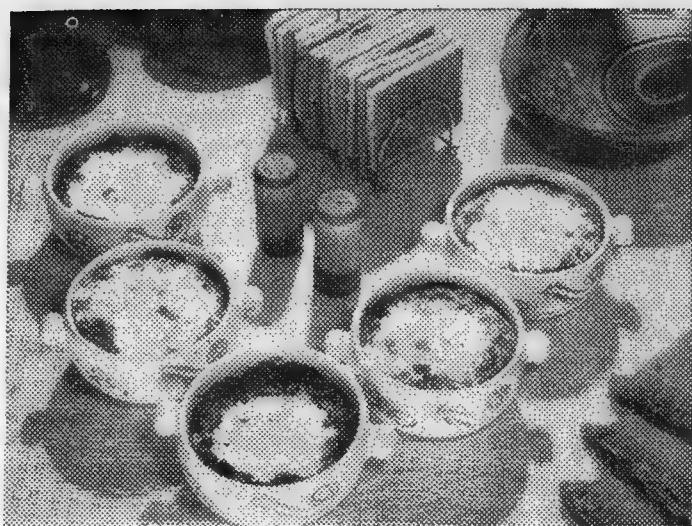
### VINEGAR SOLUTION

2 cups vinegar.  
½ tsp. salt.  
½ tsp. pepper.  
½ tsp. dry mustard.  
Let stand two weeks before serving.

Q.: Could you supply the recipe for glazed doughnuts? — (Mrs. H. P., Mission City, B.C.)

A.: I presume it is only the glaze that you want for any doughnuts can be glazed. I use this same glaze for fruit cakes or cookies, etc. Measure these into saucepan.

¾ cup white sugar  
¼ cup water  
1 tbsp. corn syrup



## Here's An Idea . . .

### A MAIN DISH

So often an egg is considered one of the dairy foods . . . we suppose because the milkman often carries eggs along with his milk, cream and butter, or perhaps because of those dainty, yellow, snap-dragon-like wild flowers called butter and eggs. No matter . . . as foods go, eggs and dairy foods team up very well together; whether you're thinking of eggs and butter, eggs and cheese, eggs and milk, or eggs and sour cream, as in Eggs Florentine.

This luncheon or supper main dish has a mixture of chopped, cooked spinach and cream of celery soup as a base. Service in individual casseroles allows an egg per person though the same thing could be done with one large casserole. A depression is made in the spinach mixture for holding the whole egg, and a covering of sour cream and cheese. The method calls for oven poaching . . . baking the casseroles in a pan of hot water . . . because high heat toughens the delicate protein of eggs and cheese.

### EGGS FLORENTINE (Makes 6 Servings)

1 pound spinach, cooked, seasoned and finely chopped; ½ (10 ounce) can celery soup, dash of nutmeg, dash of garlic salt, ¼ cup grated Canadian cheddar cheese, 6 eggs, 6 tablespoons sour cream.

Heat soup, add spinach and seasonings. Divide mixture into six individual casseroles. Sprinkle each with 1 tablespoon cheddar cheese. Press hollows in spinach and break an egg into each. Cover with 1 tablespoon sour cream and rest of cheese. Place casseroles in pan of hot water for oven poaching. Bake in a slow oven (325°F.) for 15 minutes.

Cook until soft-ball stage has not been quite reached, or 22° F. on your thermometer. Pour while warm over doughnuts, etc.

Q.: Have you a tested recipe for Dad's cookies? — (Mrs. A. M., Vancouver, B.C.)

### A.: DAD'S COOKIES

½ cup butter.  
1 egg.  
½ cup cocoanut.  
½ cup chopped walnuts.  
1 tsp. vanilla.  
1 cup brown sugar.  
1 cup quick oats.  
½ tsp. soda.  
1 cup flour.

Drop into greased pan and press on top. Bake in moderate oven until brown.

Q.: Please send me a recipe for ice cream that isn't to be made in freezer and hasn't a custard base. (Repeat.)

A.: Mrs. B. L., of Mundare, Alta., sent in this very fine recipe that she thought you'd all enjoy making . . . and eating!

### HOME-MADE ICE CREAM (not the crank-freezer type)

Beat 5 egg whites until very stiff with a dash of salt. Then add ¾ cup sugar and beat until stiff enough that one can invert bowl and it won't slide out. Next beat 2 cups cream and flavoring. Then combine egg whites and cream and pour into freezer trays.

Q.: Could you supply me with a recipe for oat cakes similar to those sold in packaged form in

the stores? These have very little sugar and are not cookies, but are best eaten just with butter. — (Mrs. W. B., Okotoks, Alta.)

A.: Of course you must realize that manufacturers are very reluctant to give out their "state secrets" so I can only guess at this recipe, but I think it comes pretty close

### OATMEAL CAKES

½ cup brown sugar.  
1¼ cups of fine rolled oats.  
1½ cups all-purpose flour.  
½ tsp. salt.  
And 1 egg and 1 tbsp. water for topping.

## Science Now Shrinks Piles Without Pain or Discomfort

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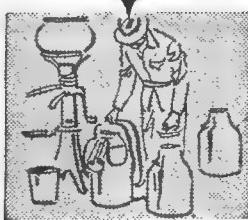
In case after case, while gently relieving pain actual reduction (shrinkage) took place.

Most amazing of all—results were so thorough that sufferers made statements like "Piles have ceased to be a problem!"

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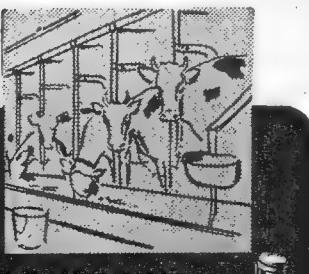
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Combine the ingredients and mix until crumbly. Press the mixture firmly into shallow pan. Press flat with spoon. Brush top with egg and water. Bake in oven 350° F. until a golden brown. When cool cut into triangles or squares.

**Q.: Have you a recipe for the real English Crumpets? — (Mrs. J. W. Beverly, Alberta.)**

**A.: ENGLISH CRUMPETS**

(Straight from the pages of Mrs. Beeton's cook book.)

1 qt. water.

2 ozs. yeast.

1/4 lb. potatoes.

1/4 oz. salt.

Flour (to make right batter).

Mix all ingredients, then leave to rise, and mix again twice. One should have a real crumpet ring to make these properly, or grease metal jar rings.

**Q.: I want to know how to make puff pastry, and am also interested in the cake that is called "a religious cake". — (Mrs. L. B. L. Hythe, Alberta.)**

**A.: I wondered if this cake was that called "Scripture Cake". I'm sorry I have mislaid it, but will mail to you when it turns up again.**

**PUFF PASTRY**

2 cups flour.

1 cup butter.

8 tbsps. sour cream.

1 tbsps. sugar

1/2 tsp. salt.

Sift flour before measuring, then again with sugar and salt. Cut very cold butter into it until it forms coarse crumbs. Add cream. Pat dough into ball, cover and set in fridge over night. Next day turn onto lightly floured board and roll very thin. Work quickly and keep dough cold. Bake in hot 450° oven.

**Q.: Have you a recipe for**

Christmas pudding that does not contain flour, only bread crumbs, fruits, etc. — (Mrs. A. W. Sion, Alberta.)

**A.: CHRISTMAS PUDDING**

(This is canned in jars.)

1 cup chopped suet.

1 cup sugar and 1 cup each of following:

Raisins, cherries, pineapple, citron, chopped apples, almonds.

2 cups cracker or bread crumbs.

2 eggs.

2/3 cups milk.

1 tsp. each of allspice and cinnamon.

Combine all ingredients and pack loosely in clean jars. Process for 50 min. in pressure cooker with ten pounds pressure or in hot water bath for 3 hours.

**MISCELLANEOUS PROBLEMS**

**Q.: When quilting I got chalk marks on a gold satin comforter and now I cannot get them off. — (Mrs. C. N., Mission City, B.C.)**

**Q.: How can I get the taste of stinkweed out of meat? The animal ate some of this before it was butchered and it is quite noticeable. — (Mrs. R. K., Hardisty, Alta.)**

**Q.: I have acquired a knitting machine but would like some extra patterns, a knitted apron pattern and a bed spread especially. — (Mrs. J. H., Newdale.)**

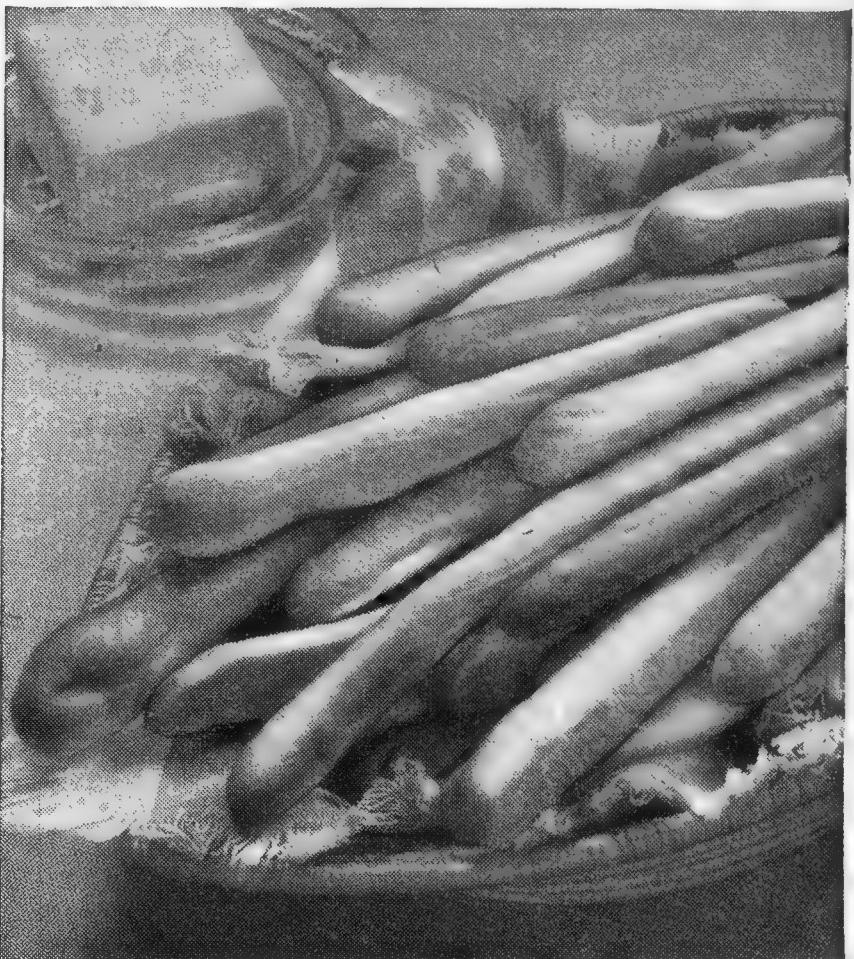
**Q.: I once had the "best ever" recipe for an orange layer cake, published by the Crisco people about thirty years ago. I wonder if it could possibly be that someone has this same recipe**

I would appreciate your comments on any of the above questions and shall pass on the information I receive to those desiring help.

**NOTE: — Direct all household inquiries to Aunt Sal, in care of the Farm and Ranch Review, Box 620, Calgary, Alberta.**

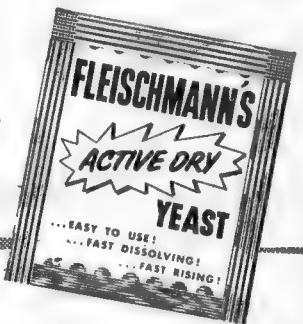


## Added Attraction Crunchy BREAD STICKS



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### CRUNCHY BREAD STICKS

Measure into a cup

3/4 cup boiling water

Stir in

1 tablespoon granulated sugar

1 teaspoon salt

3 tablespoons shortening

Cool to lukewarm

**2. Meantime, measure into large bowl**

1/2 cup lukewarm water

Stir in

1 teaspoon granulated sugar

Sprinkle with contents of

1 envelope Fleischmann's  
Active Dry Yeast

Let stand 10 minutes, THEN stir well.

Stir in lukewarm shortening mixture.

Stir in

2 cups once-sifted all-purpose flour

Work in an additional

1 1/4 cups (about) once-sifted  
all-purpose flour

**3. Turn out on floured board and knead**

until smooth and elastic. Place in greased bowl. Grease top. Cover. Let rise in a warm place, free from draft, until doubled in bulk—about 1 hour.

**4. Punch down dough, fold over, then cover and let rise until doubled in bulk—about 30 minutes. Punch down dough and knead until smooth. Halve dough; divide each half into 16 pieces. Form each piece, using hands, into a pencil-thin roll about 15 inches long. Place rolls, about 1 inch apart, in parallel rows on ungreased cookie sheets, sprinkled lightly with cornmeal. Let rise, uncovered, until about half-doubled in bulk—about 15 minutes. Brush with cold water and let rise until double the original size—about 20 minutes. Meantime, place a broad shallow pan half-filled with hot water in oven; heat oven to 425° (hot). Remove pan and bake bread sticks in steam-filled oven 10 minutes. Quickly brush with cold water and continue to bake 10 minutes longer. Cool on cake racks. Yield—32 bread sticks.**

# Aunt Sal Suggests . . .

True neighbors feel like sharing,  
Their private household  
tricks;  
And others find them helpful.

When they are in a fix.  
**H**OPE you won't think I'm being too preachy pious when I state that I feel the principle reason we are put into this life is to help each other. Nothing makes me more impatient than to see women hugging their pet recipes and ideas to themselves. I'm thankful to report that few readers of this magazine are like that, for, as the old saying goes, "you can't take it with you," and that is not only true of money, but anything that could be shared with others.

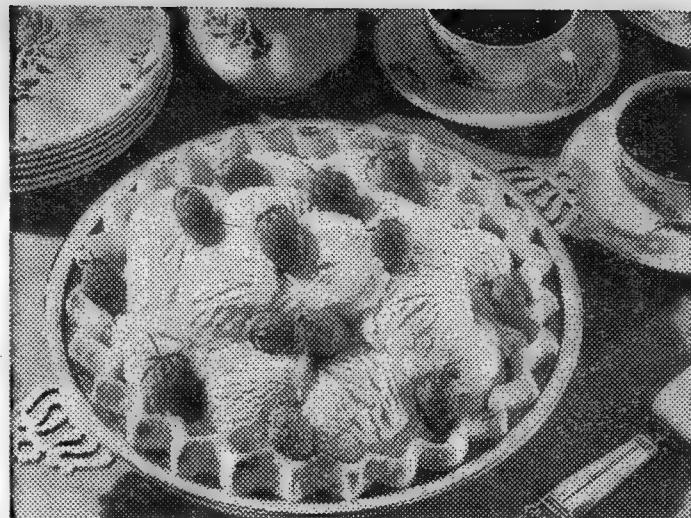
As so often happens, so many women are prompted to write me because their eyes catch some question on my other page. And so it was with the question regarding a good boiled salad dressing. Mrs. M. B., of Lacombe, thinks that too strong vinegar is to blame when dress-

ing curdles or separates, so she advises diluting the vinegar with water and also she has found that when this unhappy state of affairs occurs a few whips with a rotary egg beater will make it right. And she also suggests that when or if boiled custards curdle you get busy with your beater, too. And now here are two grand recipes for that boiled salad dressing you'll want to use so often when the salad days really arrive. The first is from Mrs. A. W., Sion, Alta., and the second from Miss E. E., Bents, Sask. They are both mouth-smackingly good.

## ■ SALAD DRESSING No. 1

- 4 eggs.
- ½ cup sugar.
- ½ cup vinegar.
- 1 tsp. dry mustard.
- 1 tsp. butter.
- ½ tsp. salt.

**METHOD:** Combine all ingredients in top of double boiler and beat with rotary beater until it thickens. Place in clean jar in



## Here's Another Idea . . .

### ICE CREAM PIES IN BUTTER CRUST SHELLS

Sometime during this dairy month of June . . . when strawberries are ripening 'neath the sun and dairy foods are in abundant supply . . . put ice cream in a pie shell and serve it in a different style. Bake a pie shell ahead of time, have a quart of your favorite fruit ice cream in the freezing compartment of the refrigerator, and in short order an attractive, delicious dessert can be prepared. The ice cream should be stored at a low temperature to keep it firm . . . so it will spoon to best advantage and hold its shape. Fill the pie shell with ice cream, garnish with fruit and there you have a simple dessert with a little different twist. Pie shells can be interesting too. For variety, add finely chopped nuts to the dough. Or, if you don't want a baked crust, try graham cracker crumbs or crushed vanilla or chocolate wafers . . . held together with softened butter. Ice cream makes a good combination with any of these.

Ice cream is a favorite dessert with young and old. It's delicious served just as ice cream and it combines so beautifully with so many dessert foods to give that final glamorous flourish to a meal.

### FLAKY BUTTER PASTRY

2 cups sifted pastry flour; 2/3 cup butter; 3 to 4 tablespoons ice water.

Cut butter into flour with pastry blender until size of small peas. Sprinkle water into mixture, a tablespoon at a time, until mixture holds together but is not sticky. Chill before rolling. Makes 2 crusts or a dozen tart shells.

fridge. May be thinned a little with cream or milk later on if need be.

## SALAD DRESSING No. 2

- 3 eggs.
  - ¾ cup sugar.
  - ¼ tsp. pepper.
  - 1 tsp. salt.
  - 1 scant dessertspoon of mustard.
  - 2 tsps. flour.
  - 2 tsps. butter.
  - ¾ cup vinegar and ¼ cup water.
- (Or if vinegar is too strong, ½ cup of each liquid.)

Cook in double boiler and add vinegar last.

And now from a friend who has been a faithful friend to this page over the years who felt she just had to pass on this fine recipe for sweet buns, that don't have to be coddled in the sponge stage, in fact the sponge can be left in fridge over night if you wish. Although I haven't done too much bread baking in recent years I just had to try this out and it made 60 buns, so when they were cooled I cached several cellophane bags full in the freezer.

### SWEET BUNS

Make a sponge in usual way, that is ½ cup lukewarm water with one package dry yeast sprinkled on top and 1 tsp. sugar.

Then combine the yeast solution with:

- ½ cup sugar.
- 2 cups warm water.
- 4 well-beaten eggs.
- ½ cup lard.

If anyone has prepared buns

at all you can take it from there. Work and knead the sponge well, with enough flour to make a fairly stiff dough. . . took about 5 cups sifted flour. Punch down twice when it rises to double its bulk. Then form into buns; let rise again and bake in fairly hot oven — you all know your own ovens best so can decide what temperature you like.

A very chummy letter from Mrs. W. W., Whitelaw, Alta., tells of her delight with her new electric stove, and she gives out with this cute trick which ties in well with the baking of bread or buns. She says that she turns on heat just for a couple minutes then turns it off and places her bread and buns in the oven to let them rise the last time, then she turns on the heat and she has found that they rise more evenly and are so nice and light. (How I love cute little home tricks like that, don't you?)

And now for a few words of warning (?) about next month's offering. Canning time has rolled around again, so all of this page will be given over to that subject for the next two months. So please rush in your questions, as if I had to ask you!

Bye bye for now, and every good wish.

Aunt Sal.

PRIMITIVE corn has been found in Indian caves in New Mexico which is estimated to be 6,000 years old; or even older than some of that served at community corn roasts.

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CALGARY, ALBERTA

### Insect damage to shelterbelts

SERIOUS damage has been done to shelterbelt trees in the last few years by insects. In all probability, from 1957 indications, there will be a serious infestation in 1958 unless preventive measures were used last year. It is important to apply insecticide while insects are very young. Complete control will often result then. Shelterbelt trees should be examined during the first few weeks after the leaves have opened and remedies applied if necessary.

### Get rid of lice now

CATTLEMEN are advised not to wait until cattle are rubbing hair and hide off in an effort to seek relief from lice. Two treatments, two weeks apart are required and can be carried out with a high-pressure spray, or by scrub washing. Milk cows and young calves should be treated with rotenone, or methoxychlor. Dry cows and beef animals may be treated with the following insecticides mixed in 80 gallons of water: 1, 7 lbs. of 5% derris; 2, 8 lbs. of 50% methoxychlor wettable dust; 3, 3/4 lb. of 50% lindane wettable dust; 4, 10 lbs. of 40% toxaphene wettable dust; 5, 8 lbs. of D.D.T. wettable dust; 6, 4 pints of 40% chlordane emulsifiable concentrate, or: 7, 6 2/5 pints 59% malathion emulsifiable concentrate. One to two gallons of spray should thoroughly do an animal.

DDT should not be used within

60 days of slaughter or freshening, lindane, chlordane or toxaphene within 30 days and malathion within two weeks. Precautions and directions with the instructions should be followed absolutely.

### Another big U.S. wheat crop

SOME experts are predicting the biggest wheat crop in United States history, barring some intervention by providence. The winter wheat crop is being estimated at 963,636,000 bushels. The crop condition, estimated at 97% is the highest on record, and compares with a ten-year record of 83%, and 84% one year ago. Winter killing the past winter was far below normal, with an abandonment of only 4.9% compared with 15.8% last year and a ten-year average of 14.8%. Practically all of the small abandonment, at that, is due to ploughing under excess acreage in line with acreage allotments.

### Root maggots costly

MUCH of the work of western gardeners ends up in the garbage can because of root maggots. These small grubs worm their way into the roots of cabbage, cauliflower, turnips, onions, radishes and other vegetables, making produce unusable.

By using the insecticides Aldrin, Chlordine, Dieldrin or Heptachlor authorities say these

maggots can be controlled. In addition the activities of cutworms, wireworms and other garden pests are also checked through their use. These chemicals can be applied to the seed row or around transplants at planting time.

For further information consult your district agriculturist, or if in Alberta, ask for a copy of Publication 130 — Control of Garden Pests In Alberta.

### Plans for pig houses

BUILDING plans for hog houses have been drawn up for the benefit of Manitoba

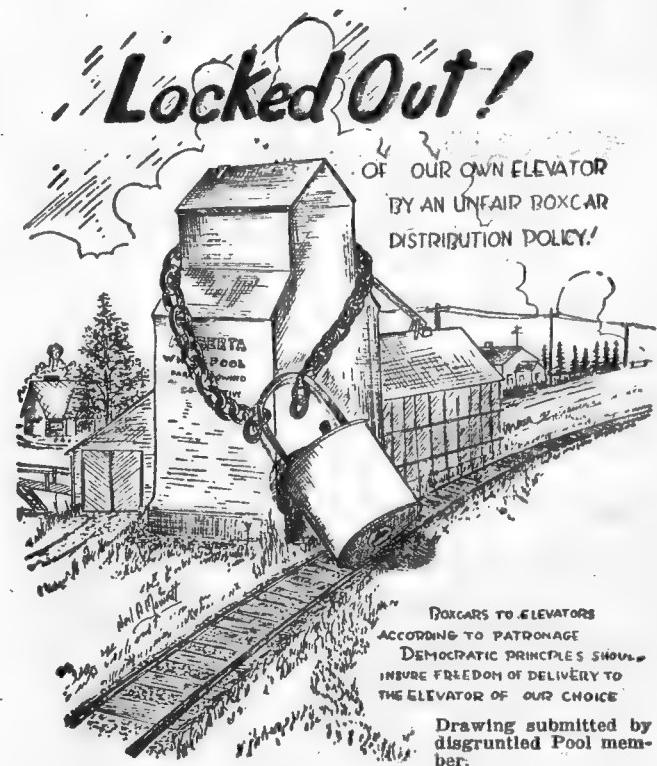
farmers by the extension service of the provincial department of agriculture.

Architectural drawings plus instructions for three types of building are available. Two of these can be built by converting a cattle or horse barn, while the other requires the construction of a new building.

The plans have been drawn up for farmers interested in market swine and are available free of charge from agricultural representatives and from the department of agriculture's extension service in the legislative building, Winnipeg.

# Farmers...

Be prepared to lodge your protests on box-car allocation with the Bracken Commission.



Farmers should have the right to deliver their grain to any elevator they choose.

This can only be done when box cars are divided between elevators in proportion to the grain that farmers wish to deliver to each.

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**Socialist triumph?**

Dear Sir:—

Could I reply to (comments relating to 'Socialist Triumph') . . . none of the comments I made re roads, farmers leaving the land, etc., were of my imagination. They were from correspondents residing in Saskatchewan . . . Speaking of the \$20.00 given to the people of Alberta, I forgot to mention the \$28.00 given to householders in B.C., but you never hear of the socialist CCF giving anything back to the people in spite of all the promises they made.

Yours truly,  
W. Wraight,  
9673 - 1117B Street,  
North Surrey, B.C.

**Early homesteader**

Dear Sir:—

In your April edition, an old print was reproduced of a Mr. Guest leaving for the homestead . . .

My husband and I were both surprised and pleased to have many neighbors phone us about the picture and bring the paper . . . It so happens the man on the wagon with reins in hand is my husband's father . . . and about three of his children . . . The man in shirtsleeves is his brother.

My husband says it was fall of the year ('08) . . . it had snowed not long after their arrival at the homestead and leaked through the roof which had not been quite finished. It took 5 days to

come the 65 miles from Edmonton.

Mr. Guest passed away in 1952 at the age of 84, and we live on the old place, 6 miles west of Westlock. I dug into "Gramp's" trunk and found the same old picture, but larger and much clearer, and when anyone comes, I show the one in your paper and the old original.

Yours truly,  
Mr. and Mrs. Geo. J. Guest, Jr.,  
R.R. No. 2,  
Westlock, Alta.

**Compulsory boards**

Dear Sir:—

While reading a letter written by Julius Iverson on Compulsory Boards, he states that for about eight years we were compelled to ship our furs to the Sask. Compulsory Fur Marketing Board service at the lowest price in the memory of the oldest resident.

I presume the only fur he ever trapped was beaver and muskrat, as this is the only type of pelt that trappers were compelled to ship through the Board due to a conservation program so as not to deplete the breeding stock from season to season.

Mr. Iverson failed to mention other short-haired fur which has

been in demand the last 8 years, such as weasel and mink. I have received almost \$50 each for several small mink pelts sold through the Saskatchewan Fur Marketing Service, and know of a friend who shipped equally as good pelts to a privately-owned fur house and received \$2 each.

The Fur Marketing Service does not buy fur, but sells pelts through auction held once a month, and the shipper receives prices his furs sell for less a small commission for handling.

Yours truly,  
R. Sulland,  
Gladmar,  
Saskatchewan.

Dear Sir:—

. . . In one of the Letters to the Editor, under the heading "Compulsory Boards," I can tell the writer that I also live in Saskatchewan and I have not seen where the C.C.F. government has caused the farmers or anyone else the hardships stated by him in his letter . . .

We are not well off financially due to the fact that production costs as well as the cost of living has skyrocketed while the price of our produce has not risen accordingly . . . Also, a few bumper crops in the west with no market have caused tight quotas . . .

Also stated in the letter . . . "most of the young men were leaving Saskatchewan." I live in the southwest where oil production is a large industry and there are a lot of Alberta and Manitoba boys working in this industry as well as Saskatchewan boys . . .

In many areas of the province, what with rural electrification, good roads, larger school units with new schools where children are taken by school bus, where we have greatly improved roads, a bus service that serves most of the province owned by the people of Saskatchewan, a hospital plan that is hard to beat, an ambulance service, an insurance company owned by the people selling the cheapest and best insurance possible. Reviewing all these facts how can one say that we are worse off than in the thirties? . . .

Yours truly,  
Syd. Douglas,  
Carnduff,  
Saskatchewan.

**Confused!**

Dear Sir:—

Please be more consistent and you would be less confusing!

. . . In your March issue you urged western farmers to vote for a Tory government. That in itself is inconsistent because the Tory party stands for high tariffs and reduction of trade with our best customers, the

United States, both of these ideas, factors in increasing the pressure of the cost-price squeeze for farmers.

Now in April, you write of cutting government expenses and taxes just after the election of a government who's election you advised, which has spent so much money as election bait in nine short months and has promised to spend billions on projects . . .

You write of cutting some of the bureaucracy and its expense after advising the election of a government who has set in motion so many Royal Commissions and already has a top-heavy cabinet . . .

To cap it all, you advise the government to fall short on its election promises. What line of reasoning can be used to decide to vote for a party because of its promises if you do not want them to keep those promises when elected. Or should we just swoon over a party leader dolled-up as a T.V. idol the way a band of teen-agers would do over Elvis?

Yours truly,  
John H. Green,  
Ridgedale,  
Saskatchewan.

(Saskatchewan resident Green can go on record as opposing both the Liberals and Conservatives if he wishes, but he should not try to put words in the editor's mouth. He is drawing his own confused conclusions . . . not ours. — Editor.)

**Labor and farmer**

Dear Sir:—

In answer to Mr. Albert Kessel's letter re labor.

Mr. Kessel seems to be under the impression that labor is the chief cause of all the farmer's troubles. No doubt he never lived in town to see how much it does cost to live there . . .

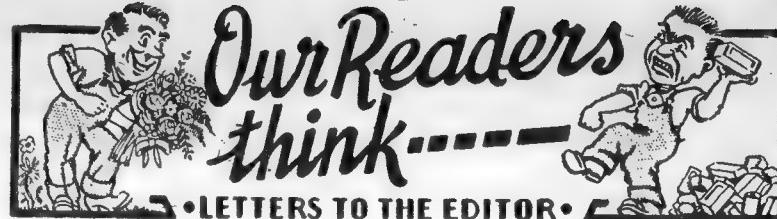
Where I resided for the past eight years we paid as high as 75c a doz. for A Med. eggs; 80c a pound for butter, and meat just as high. High rent to pay and income tax with very little personal deduction for allowances like a farmer can claim.

On my last job I needed a car as it was 16 miles to town for groceries. Yet I could not claim any of my car on my income tax . . . a farmer can claim both his car and truck.

Yes, I lived on the farm, too, up until the war and then . . . 3 years overseas while you farmers reaped a fortune at home. Not all of you, but many did. I tried the V.L.A. . . . but never did get a farm.

Mr. Kessel should try to live in town for awhile to see just what it does cost to live. After all, it is us laborers who buy his produce to keep him down on the farm.

Yours truly,  
A. R. Longstreet,  
Handsworth,  
Saskatchewan.



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CALGARY EXHIBITION AND  
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Wednesday, Thursday, Friday, Saturday Afternoon and Evening Performances.



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F. C. MANNING, President

M. E. HARTNETT, General Manager

**Hidden power**

Dear Sir:

I must congratulate you on your editorial "Hidden Power".

There are not many editors left in our so-called "free country" who have the guts to print the truth. Since most large newspapers are under the Socialists' thumb and won't print anything but propaganda one has to give credit where credit is due.

Last year the CBC spent \$300 million . . . in 1946 the cost of operating the CBC was \$16 million. The cost of running Socialism — not living — has really gone up for the CBC.

I think its up to every Canadian citizen to step on your local M.P.'s toes and whisper in his ear about what is going on in Ottawa.

Yours truly,  
Alvin Gaetz,  
R.R. 3,  
Bluffton, Alta.

**Grain treatment warning**

Dear Sir:

I am enclosing an item from your issue . . . explaining the best manner in which to use an auger or loader for treating seed grain.

This should have contained a warning as to the dangers of using loaders for this purpose. I have known several cases where a few kernels were left in the auger and these kernels contaminated other grain when the au-

ger loader was used the next time. Grain inspectors may condemn a full carload of grain if they find one kernel of treated grain in the sample. When a car is condemned it means the grain must be ground and sold for feed only.

Loaders should be tapped with a hammer all over and thoroughly cleaned after being used for treated seed.

I am suggesting you give this warning in your next issue. There is a thousand-dollar fine which can be levied against anyone delivering treated grain to a country grain elevator.

Yours truly,  
W. J. Graham,  
642 Crescent Road,  
Calgary.

**Crusading editorials**

Dear Sir:

I have been a subscriber to your magazine for many years and have certainly got more than my money's worth.

I would just like to offer a little criticism of your editorials lately. Honestly they remind me of the old crusading Wobblies of the I.W.W. (International Workers of the World.—Ed.) in 1904. If you are not careful you will be having these prairie farmers singing "Hallelujah, I'm a bum," whereas they should be thanking God for their full bellies, fine homes, and good cars. Whether they are paid for or not doesn't matter . . . They have them and

enjoy them. Lots of other people have none of these things . . .

If a small town storekeeper, or a blacksmith, or even a publisher can't make a go of his business, it would be of no use squabbling for subsidies or government help. No man is or should be free from worry all the time . . .

Yours truly,  
J. R. Pake,  
Port Alberni,  
British Columbia.

**Turncoat?**

Dear Sir:

Unconvinced reader, G. W. Wilson, R.R. No. 6, North Edmonton, has left me unconvinced that it is wrong to take a good look at a situation to find out if we are going in the right direction before giving any one party the same blind support that he always has.

Look at Germany and how its people followed Hitler! Would Mr. Wilson have called any Nazis who were sobering up enough to realize that they were following the wrong leader — a turncoat?

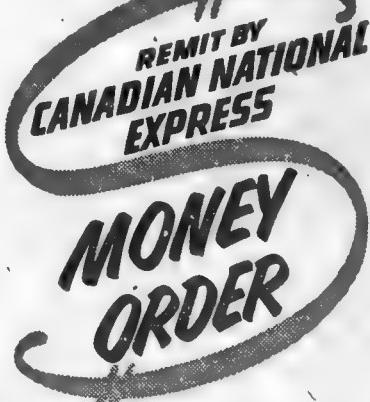
Hurrah for your editorials. No human being ever lived who didn't make some mistakes. Your words, however, are some of the truest, clearest, sum-ups of our problems I've ever read; with very fresh, original viewpoints.

Yours truly,  
L. B. Rosche,  
LaBroquerie,  
Manitoba.



"Tug on it a few times. His morale is getting low."

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Here's your chance to sell the world's leading grain bin! Butler Manufacturing Company (Canada), Ltd., is looking for dealers in your territory to stock and sell Butler bins, bulk feed tanks, and utility and livestock shelters. This is an unusual opportunity to increase your volume—and your profits. Mail inquiries to Farm Equipment Division, Butler Manufacturing Company (Canada), Ltd., Dept. 13, P.O. Box 506, Burlington, Ontario.

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**"HOW TO TRAIN HORSES"** — A book everyone who likes horses should have. FREE. No obligation. Simply address Beery School of Horsemanship, Dept. 666, Pleasant Hill, Ohio.

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## MISCELLANEOUS

**SCOOP PURCHASE — FACTORY RE-BUILT GMC 270 TRUCK MOTORS** — Army Surplus just released. Less than  $\frac{1}{2}$  Price. Complete assemblies, including carburetor, wiring, spark plugs, fan and belt, oil filter and air cleaner. Remanufactured to rigid engineering specifications. Only \$399.00. Hydramatic Transmission and Torque Convertors for GMC 270 Truck Motors. Only \$149.00. Ribtor Co. Ltd., 605-607 - 2nd St. E., Calgary, Alta.

## PERSONAL

**PERSONAL RUBBER STAMP** 3 lines (indexed). \$2.00; 4 lines, \$2.50; Stamp pad, 75c. Postpaid. Reliable Agency, Box 6-HR, Regina, Sask.

**\$500 FOR YOUR CHILD'S PHOTO**, if used. For advertising. Send photo for approval. Returned 2 weeks. ADVERTISERS, 6000-FXS Sunset, Hollywood 28, California.

**ADULTS I BIRTH CONTROL BOOK** plus modern sex booklet. Both for 25¢. Latest information. Confidential. Mailed in plain, sealed wrapper. Western Distributors, Box 24GR, Regina, Sask.

**REINCARNATION** — God generates beings, and sends them back over and over again, till they return to him. The Koran.

**FIRE SALE I FIRE SALE I** Slight water and smoke damage. Plain cottons and white, yard 23c. Printed broadcloths, yard 29c. Misdyed cottons, 10 yards, \$1.49; 2½ yards drapery printed, \$1. Schaefer Ltd., Box 370, Drummondville, Que.

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**FREE BIBLE HELPS** — Will answer any question on subject, "What must we do to gain eternal salvation." John Cizen, Prelate, Saskatchewan.

## TOBACCO

**CIGARETTES — CUBAN, EGYPT, HOLLAND, ITALY, etc., etc.** Samples for sale. Germain Bourassa, St. Barnaby North, Quebec.

## Magnetic stomachs for cows

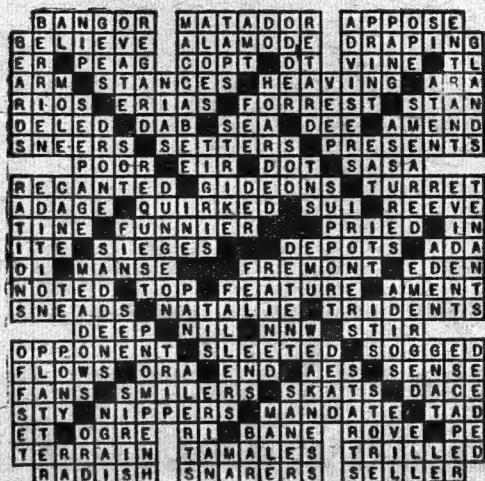
**HAVE** you a cow with traumatic gastritis? That's a fancy word for "hardware disease" or "ironitis" as some may call it.

This "disease" is caused by bits of metal, nails, pieces of baling wire, staples, and other metal objects swallowed with feed which irritate the animal's stomach. Cattle go off their feed, and milk and beef production drops. It has been known to affect at least half the animals in a herd.

An American company claims to have come up with both a preventive and a cure for hardware disease in the form of a three-inch plastic-coated magnet. Called the "Magnetrap", the magnet is dropped down a cow or steer's throat with an ordinary balling gun such as is used to administer sulfa capsules. Forced into the cow's reticulum, or second stomach, by rumenal stomach contractions, the Magnetrap gathers up the stray bits of metal and prevents them from irritating. It lasts the life of the cow, the metal particles dissipating through oxidation without damage to the animal.

The Magnetrap is a two-ounce

## Solution To Crossword Puzzle



magnet coated with a white plastic gelcoat manufactured by Ferro Corporation, Cleveland, Ohio. The coating is sanitary and impervious to rumen enzymes.

Veterinarians estimate that at least half the cattle in a given herd carry enough metal in their stomachs to cause damage. Of these, 10% may have noticeable trouble.

The most prominent symptom of hardware disease is a cow that one day is normal in appetite, appearance, and production, and the next suddenly stops eating, stands with a pained expression and suffers a large drop in production.

## Shrinkless woolens in sight?

**SULPHUR** and molasses is an old home remedy for humans, but now University of Illinois scientists are feeding sulphur to sheep. They believe they have discovered a means of producing "shrinkless" wool by feeding raw sulphur. The sulphur forms a connecting link between molecules and this link won't let the molecules spring back once they have stretched.

## 270 trips to the moon

**THE C.N.R.** operates nearly 25,000 miles of main line track — enough to go round the world at the equator. It also has almost 10,000 miles of secondary track, yard sidings, and spurs. With so much talk of space travel it is interesting to note that last year C.N.R. trains ran up a total of 68 million miles, or about the equivalent of 270 trips to the moon.

## Irrigation project at University of Sask.

**A 250-Acre irrigation project** has been approved by the Saskatchewan government at the University of Saskatchewan, at a cost of about \$70,000. Sas-

katchewan has about 175,000 acres of land now under irrigation and with the development of the South Saskatchewan River project training in irrigation practices will take on a new importance. In addition to providing this training, (not now available in Saskatchewan) and irrigation research, the project will serve as a practical means of instructing farmers now engaged in irrigation.

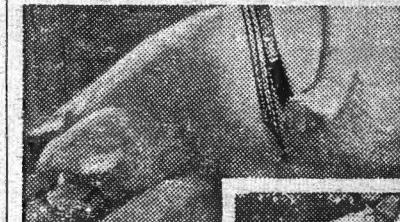
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DAVERN FARMS LTD. have a particularly good selection of bred gilts from the Davern pure-bred Landrace herd available for farrowing in July and August. These fine gilts are bred from recently imported boars and sows such as Goval Eremit 246 and Arnage Erot 5th. Send for details now.

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## WEIGHBAND



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That's all there is to it. Guaranteed accurate to within 3%, the Weighband is easy to read, can be carried in your pocket, and will last for years.

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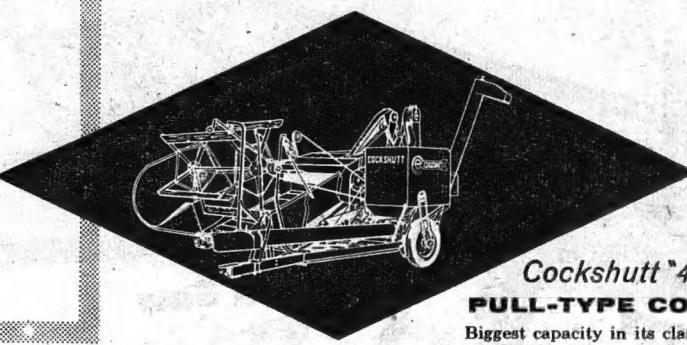
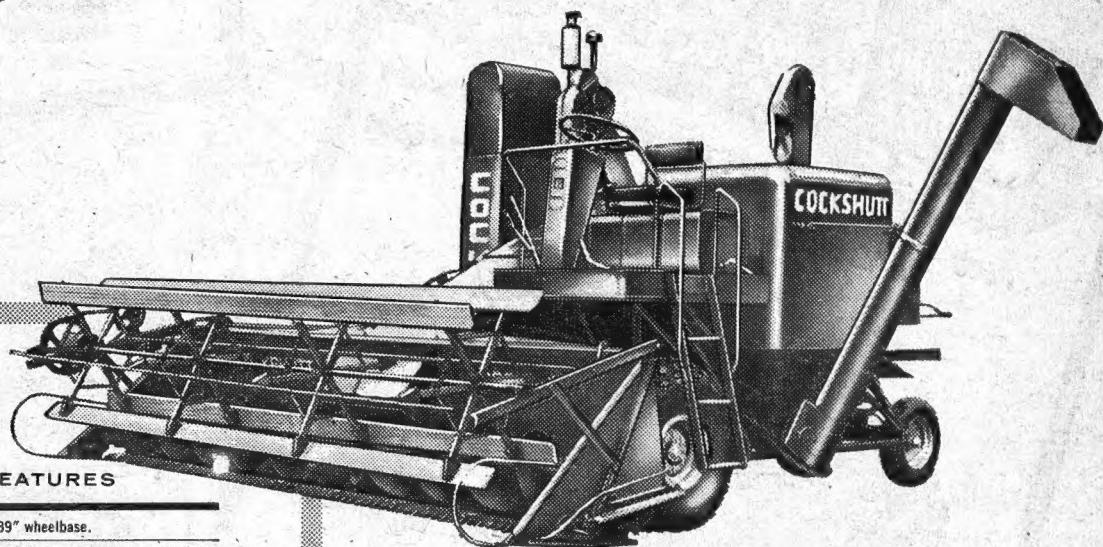
Cockshutt

# Cockshutt combines combine the best

**Big capacity pays off**—In Cockshutt combines you get the combination of big threshing, separating and cleaning capacity *plus* easy operator control. When shopping for your combine use the check list below to make sure you get all of the features that count most in getting *more* grain out of your field *faster*. When you compare, you will choose a Cockshutt because only Cockshutt gives you *all* the most wanted combine features.

## SELF-PROPELLED COMBINE CHECK LIST

Cockshutt SP-427 DRIVE-O-MATIC	Cockshutt SP-428 DRIVE-O-MATIC	OTHERS	FEATURES
✓ (32")	✓ (37")		Longer 139" wheelbase.
✓ (35 gal.)	✓ (35 gal.)		Large body width to handle heaviest crops.
			All-day fuel capacity for less delay in fields.
			Twin hydraulic header lift.
			Safety lock header hydraulics.
			Low range cutting (under 2").
			Foot operated variable speed drive.
			Easy access cylinder hood.
			12" bar reversible type concave.
			Quick change concave clearance.
			Extra large separation area.
			Extra large cleaning area.
			Extra large 60 bushel grain tank.
			Swing back unloading auger.
(3744 sq. in.)	(4329 sq. in.)		
(2898 sq. in.)	(2898 sq. in.)		

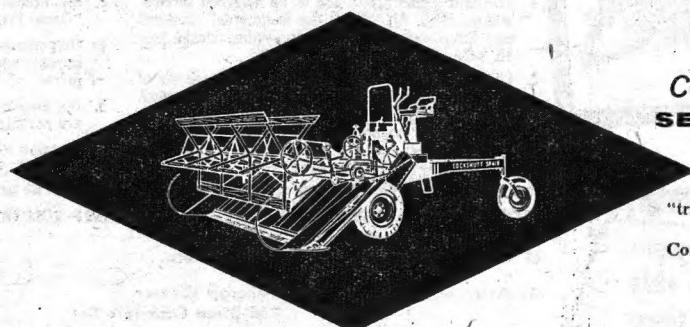


Cockshutt "422"

### PULL-TYPE COMBINE

Bigest capacity in its class—greater threshing capacity, unequalled separation and cleaning surface—more than many of the big self-propelled combines. 66" straight through body. Giant 4-riser straw rack. Big 26 bushel grain tank.

These set the big capacity standards in their class, too...



### Cockshutt SP "419" SELF-PROPELLED SWATHER

Builds criss-cross windrows that lay high and loose on the stubble for fast drying, easy pick-up. Variable speed drive, "trim" steering. Reel and platform raised and lowered by foot-controlled hydraulics. Comes in 10', 12', 14' or 16' models. Modern spray attachment available.

Combines  
The best

Cockshutt

The Cockshutt Way... Makes Farming Pay!

Not ONE, Not TWO, but...

# A Grand Prizes

Just "Count the Outboards" to win  
(NO BOX TOPS—FREE ENTRY FORMS)

2nd GRAND PRIZE FREE

PLUS A 12 foot Sangstercraft Scout Deluxe Boat  
with a fibreglass hull



Outboard Motor \$279  
Deluxe Boat 485  
LIST TOTAL \$764

3rd GRAND PRIZE FREE

3.6 HP.  
"SCOTTY"  
Outboard  
stretches a  
pint of gas into  
hours of trolling.  
LIST PRICE \$174



4th GRAND PRIZE FREE

A McCULLOCH "MAC"  
Chain Saw

LIST PRICE \$175

Send in your  
answer on this  
coupon in time  
to WIN!  
COUNT  
THE OUTBOARDS  
TODAY!

Last year's GRAND PRIZE WINNER, Miss Cecile Baker (left) of 1715 Elgin Ave., Montreal, Quebec, accepts the keys from Toronto's Miss Byline, Elaine Bishenden, for this brand new 1957 Monarch Lucerne. She topped more than 20,000 other contestants.



1st GRAND PRIZE FREE



SCOTT-ATWATER  
"FLYING SCOTT"

60 HP. - 160 LBS.

Inch for inch,  
pound for pound,  
the most powerful  
outboard in history

Motor Value \$1244

PLUS

Single Lever Remote Control	65
Power Motor Tilt	165
Power Steering Wheel	275
Spare Propeller	40

LIST TOTAL \$1789

Choice of six bold colors.

## WIN MONTHLY PRIZES OF YOUR CHOICE!

plus THOUSANDS OF DOLLARS IN DISCOUNT AWARDS AS CONSOLATION PRIZES

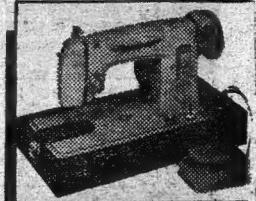
Price shown on these prizes includes valuable surprise premiums.



PRESIDENT Vacuum Cleaner complete with 11 Attachments including de-nudging equipment, power paint sprayer, and Rug shampooing equipment. Guaranteed for 1 year. Regular Price \$169.95



PRESIDENT 3-Brush Floor Conditioner, counter-rotating brushes with buffers, sanders, polishers. Guaranteed 1 year. Regular Price \$169.95



BROTHER Window-Matic Sewing Machine. Lifetime Guarantee. Regular Price \$229.95



PRESIDENT Masterware 19-piece Set 18-8 Stainless Steel construction. Entirely postwelded. Vapor vacuum seal lids. Regular Price \$169.95

## Here's what you do to win

- Count all the outboards shown.
- Count partial outboards, too.
- Mark your total on the coupon.
- Fill out and mail in.

## RULES OF THE CONTEST

1. The four grand prizes are to be awarded in December, 1958. All "Count the Outboards" Contests end November 30, 1958. This Contest closes July 10, 1958.
2. Choice of feature monthly prize plus thousands of dollars in discount awards will be awarded to most accurate entrants each month. These awards are worth \$20.00 as part payment on any of our vacuums, polishers, sewing machines or Master-ware sets retailing at \$39.50 or more.
3. All winners in (2) are eligible to win the top "Grand Prizes".
4. Only one entry per person allowed. You must be 18 or older and a resident of Canada to be eligible for prizes.
5. Our employees and those of our Advertising Agency are not eligible.
6. Decision of judges is final. All entries become the property of President Electric Limited.

"COUNT THE OUTBOARDS" CONTEST —PRESIDENT ELECTRIC LIMITED  
c/o Box 401, Postal Station "Q"  
27 St. Clair Avenue East, Toronto, Ontario.

F.R.R. 2

My choice of monthly prize is  Vacuum Cleaner  
 19-piece Cookware Set

3-Brush Polisher  
 Sewing Machine

I hereby agree to abide by the rules of the contest.

MY COUNT IS

OUTBOARDS

NAME.....

ADDRESS.....

TOWN or CITY.....

PHONE NO.....

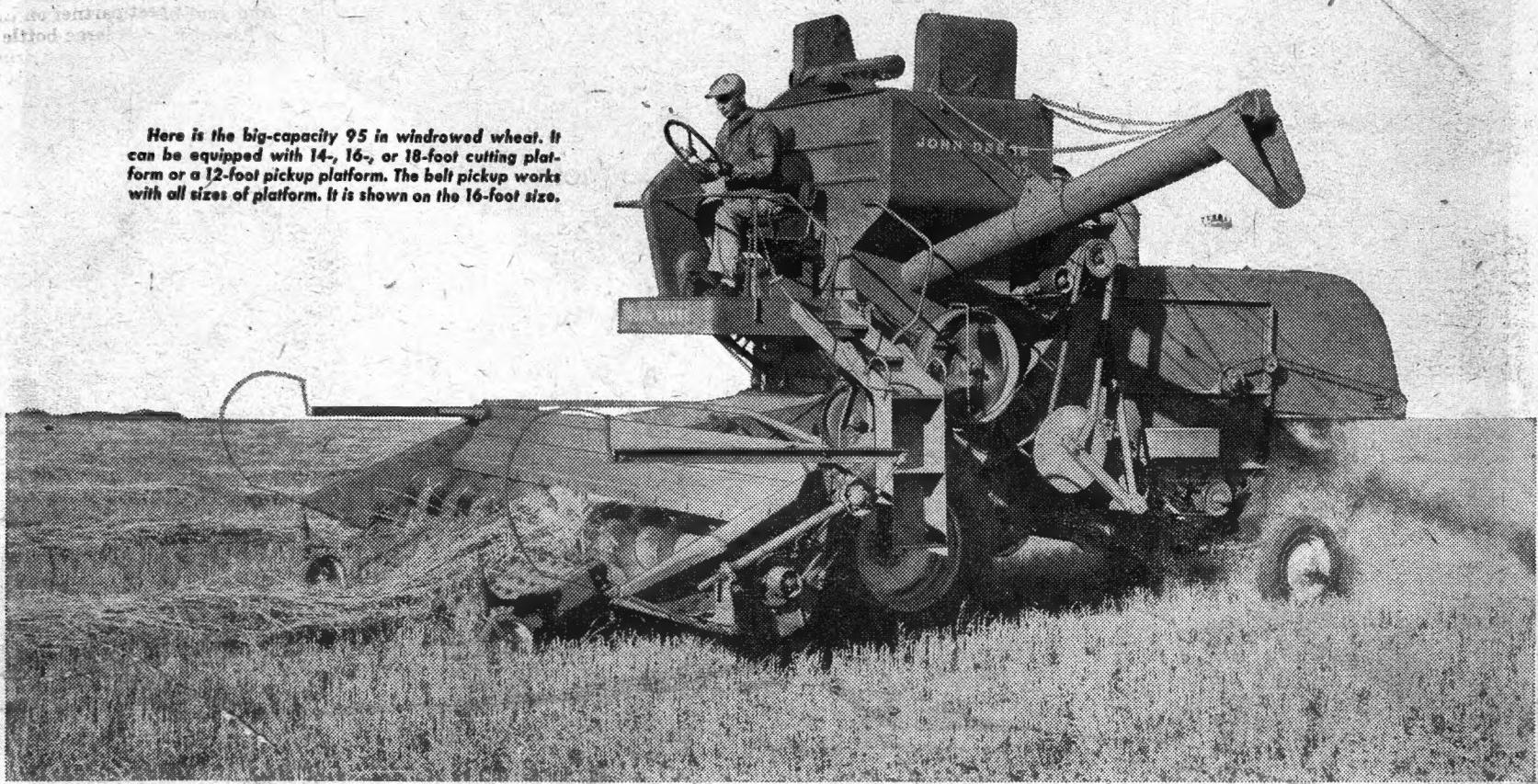
# NEW JOHN DEERE



EX LIBRIS  
UNIVERSITATIS  
ALBERTENSIS

# IT TOPS THEM ALL for CAPACITY

Here is the big-capacity 95 in windrowed wheat. It can be equipped with 14-, 16-, or 18-foot cutting platform or a 12-foot pickup platform. The belt pickup works with all sizes of platform. It is shown on the 16-foot size.



You'll Save Time...Bin More  
Grain...and Cut Harvest Costs  
with this BIGGEST of  
ALL Self-Propelleds

CAPACITY that is unequalled by any other combine on the market today is yours when you choose the new John Deere 95 Self-Propelled. Here's what we mean by *big* capacity in the 95. It handles a 16- or 18-foot cut . . . it has a 40-inch feeder . . . a 40x22-inch cylinder . . . 5600 square inches of separating area . . . and 4061 square inches of cleaning area. Here's bigness that means many hours—even days—saved from every harvest season . . . bigness that means more grain or seed saved from every

The John Deere Credit Plan makes it easy for you to pay for the 95 as it earns money for you—ask your dealer about this plan.

acre . . . bigness that puts more money in your pocket from every acre it harvested.

#### The 95 Has Every Up-to-Date Advantage

The big "inside story" of the 95 is only part of the picture. It has an 80 h.p. John Deere Engine . . . a big, 60-bushel grain tank . . . big 18x26 tires . . . big, total-contact, disk-type brakes . . . power steering as regular equipment . . . and selective ground speed to adapt the forward movement of the combine to the condition of the crop.

Other extra-value features include a deep-cushioned fold-up seat . . . an automotive-type steering column for easy handling, seated or standing . . . outside adjustments for all important units, such as cylinder and concave spacing, chaffer and sieve openings, air blast direction . . . and a separator inspection door. There's even a handy tool box.

#### See Your John Deere Dealer

Big advantages—little advantages—many refinements that are the result of many years' experience in the combine-building craft are all here in the 95 Self-Propelled—and they can all be yours this season. Get complete details from your John Deere dealer on your next trip to town.



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Please send me your free illustrated folder on the 95 Self-Propelled.

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## JOHN DEERE

"WHEREVER CROPS GROW, THERE'S A GROWING DEMAND  
FOR JOHN DEERE FARM EQUIPMENT"